

**SKYJACK**

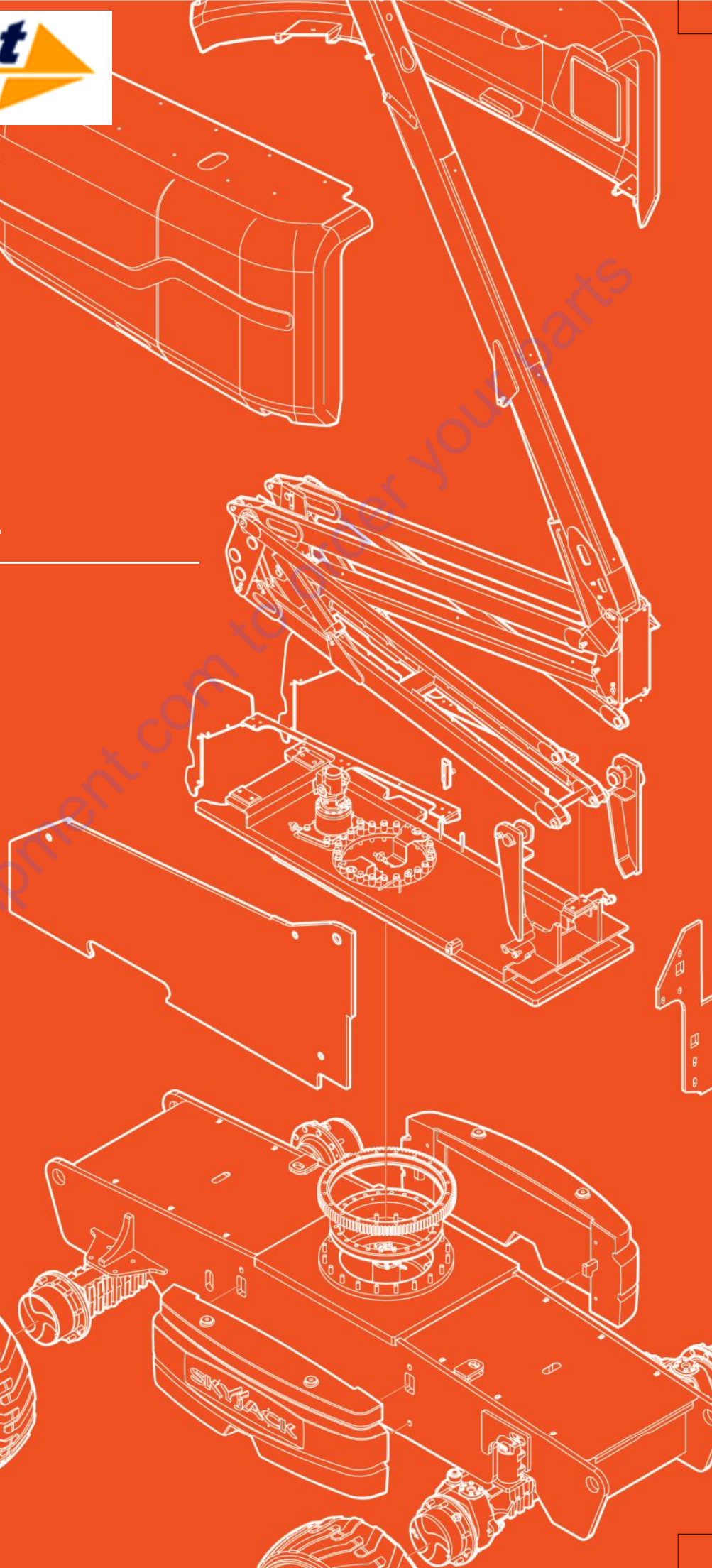
# PARTS MANUAL

**SJ85 AJ**

ARTICULATING BOOM

**229037ADA**

August 2020  
ANSI/CSA, CE, AS



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**SJ85 AJ: A303 000 001 - A303 999 999**

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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 Discount-equipment 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

Address all orders to Discount-equipment.

Specify model and serial number of the work platform (found on the serial number plate).

List the quantity needed.

List the length needed (if it is a bulk item).

List the part number and description as shown in this manual for each item.

Show the billing and shipping address and the name of the individual, if possible.

Suggest the best routing.

Customer: \_\_\_\_\_

Dealer: \_\_\_\_\_

Model Number: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Date Purchased: \_\_\_\_\_



## Recommended Service Parts

Description	Year 1 Qty	Year 2 Qty	Year 3 Qty	Skyjack Part No.
<b>Engine - DeutzTD2.9L</b>				
FILTER, Oil - Deutz TD2.9L	2	2	2	147072
FILTER, Fuel pre-filter - Deutz TD2.9L	2	2	2	164772
FILTER, Fuel - Deutz TD2.9L	2	2	2	164771
ELEMENT, Air cleaner - primary	2	2	2	165949
ELEMENT, Air cleaner - secondary	1	1	1	165950
THERMOSTAT, Deutz TD2.9L	0	0	1	166699
HOSE, Radiator return - Deutz TD2.9L	0	0	1	207694
HOSE, Radiator upper - Deutz TD2.9L	0	0	1	207696
HOSE, Radiator lower - Deutz TD2.9L	0	0	1	207695
BELT, Alternator/water pump - Deutz TD2.9L	0	0	1	166694
PUMP, Fuel - Deutz TD2.9L	0	0	1	164770
STARTER, Deutz TD2.9	0	0	1	166692
ALTERNATOR, Deutz TD2.9	0	0	1	166693
<b>Engine - Deutz TCD2.2</b>				
FILTER, Oil - Deutz TCD2.2	2	2	2	224309
FILTER, Fuel pre-filter - Deutz TCD2.2	2	2	2	224323
FILTER, Fuel - Deutz TCD2.2	2	2	2	224320
ELEMENT, Air cleaner - primary	2	2	2	165949
ELEMENT, Air cleaner - secondary	1	1	1	165950
THERMOSTAT, Deutz TCD2.2	0	0	1	224587
HOSE, Radiator return - Deutz TCD2.2	0	0	1	206958
HOSE, Radiator upper - Deutz TCD2.2	0	0	1	206960
HOSE, Radiator lower - Deutz TCD2.2	0	0	1	206959
BELT, Alternator/water pump - Deutz TCD2.2	0	0	1	166694
PUMP, Fuel - Deutz TCD2.2	0	0	1	224314
STARTER, Deutz TCD2.2	0	0	1	224307
ALTERNATOR, Deutz TCD2.2	0	0	1	224310
<b>Engine - Deutz D2011</b>				
FILTER, Oil, Deutz D2011	2	2	2	147072
FILTER, Fuel, Deutz D2011	2	2	2	147071
ELEMENT, Air cleaner - primary, Deutz D2011	2	2	2	704560
ELEMENT, Air cleaner - secondary, Deutz D2011	1	1	1	706549
BELT, Alternator - Deutz D2011	0	0	1	151770
PUMP, Fuel - Deutz D2011	0	0	1	127181
STARTER, Deutz D2011	0	0	1	204249
ALTERNATOR, Deutz D2011	0	0	1	168365

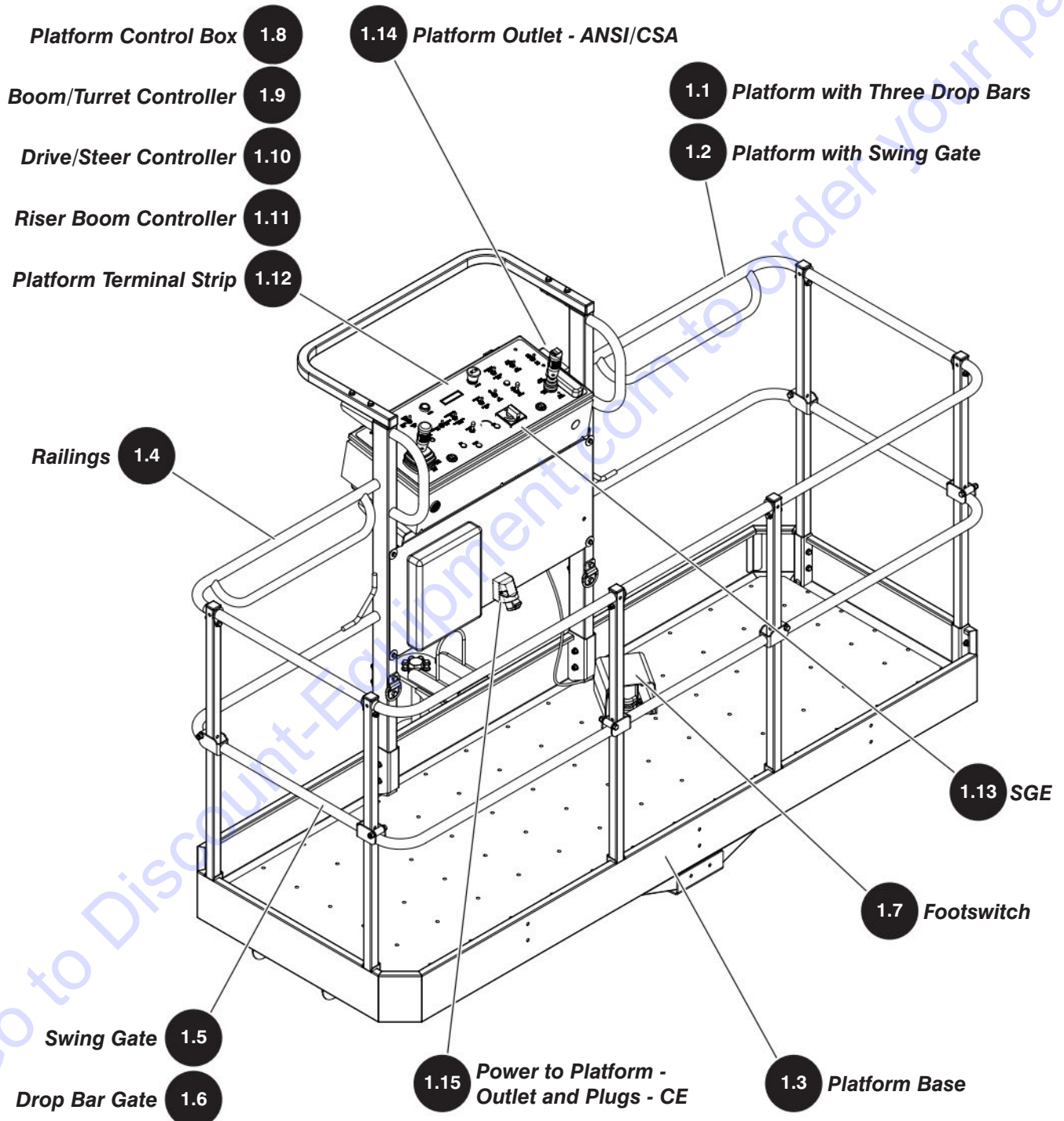
## Recommended Service Parts

Description	Year 1 Qty	Year 2 Qty	Year 3 Qty	Skyjack Part No.
<b>Engine - Kubota WG3800</b>				
FILTER, Oil, Kubota	2	2	2	212016
FILTER, Fuel pre-filter - Kubota	2	2	2	136118
ELEMENT, Air cleaner - primary	2	2	2	165949
ELEMENT, Air cleaner - secondary	1	1	1	165950
THERMOSTAT, Kubota	0	0	1	212020
HOSE, Radiator upper - Kubota	0	0	1	211878
HOSE, Radiator lower - Kubota	0	0	1	211877
BELT, Fan - Kubota	0	0	1	212004
PUMP, Fuel - Kubota	1	1	1	164881
STARTER, Kubota	0	0	1	212002
ALTERNATOR, Kubota	0	0	1	212003
SPARK PLUG, Kubota	0	0	1	194658
REGULATOR, Propane - Kubota	0	0	1	212022
VALVE, Lockoff - Kubota	0	0	1	164889
REGULATOR (EPR), Kubota	0	0	1	194699
MIXER, Kubota	0	0	1	212014
<b>Electrical</b>				
BATTERY	2	2	2	103295
RELAY	5	5	5	127131
SOCKET, Relay	1	1	1	138749
SWITCH, Toggle	2	2	2	102853
SWITCH, Toggle	1	1	1	148988
SWITCH, Toggle	1	1	1	138278
SWITCH, Toggle	1	1	1	115747
BLOCK, N.C. Contact (red plunger, key switch and e-stop)	1	1	1	147053
BLOCK, N.O. Contact (black plunger, key switch)	1	1	1	166141
BLOCK, N.C. Contact (yellow plunger, key switch)	1	1	1	166142
SWITCH, Limit - boom angle	0	1	1	207059
SWITCH, Limit - boom angle - dual load	0	1	1	216008
SWITCH, Limit - boom extension	0	1	1	198390
SWITCH, Limit - riser	0	1	1	207017
SWITCH, Limit - boom down cut-out	0	1	1	207059
SWITCH, Limit - direction sensing	0	1	1	199546
COIL, Valve	0	1	1	159821
COIL, Valve	0	1	1	208881
COIL, Valve	0	1	1	212554
KIT, Drive/steer joystick handle	0	1	1	141338

# Recommended Service Parts

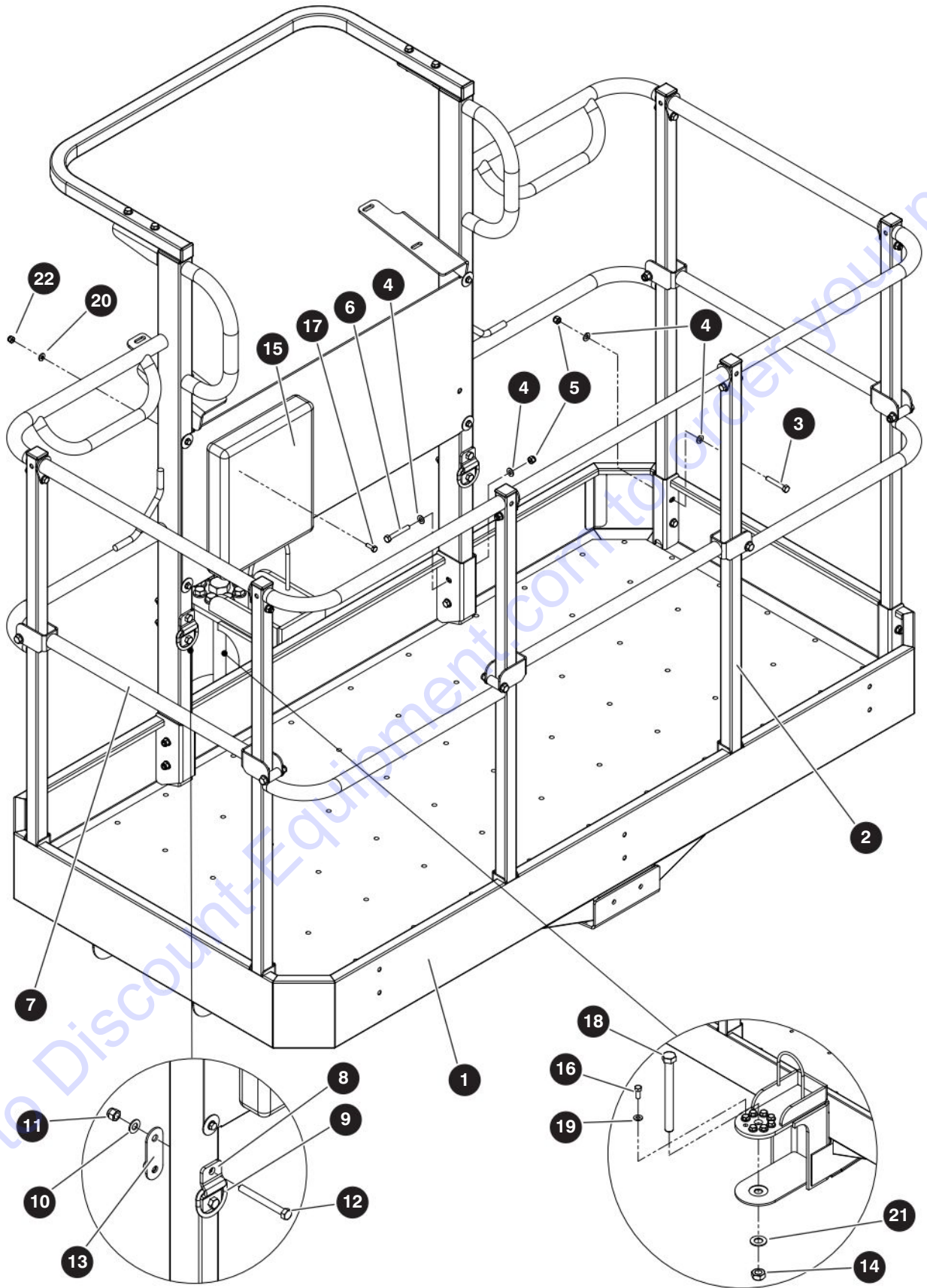
Description	Year 1 Qty	Year 2 Qty	Year 3 Qty	Skyjack Part No.
<b>Hydraulic</b>				
ELEMENT, High pressure filter - hydraulic	1	1	1	161947
ELEMENT, Return filter - hydraulic	2	2	2	161948
SEAL KIT, Extend cylinder	0	0	1	212717
SEAL KIT, Lift cylinder	0	0	1	212704
SEAL KIT, Riser cylinder	0	0	1	212693
SEAL KIT, Master cylinder	0	0	1	212739
SEAL KIT, Slave cylinder	0	0	1	212747
SEAL KIT, Jib cylinder	0	0	1	170711
SEAL KIT, Axle lockout cylinder	0	0	1	154557
SEAL KIT, Rotary actuator	0	0	1	144709
SEAL KIT, Steer cylinder	0	0	1	169242
<b>Boom</b>				
SHIM, 16 gauge (6.50" x 5.00")	0	1	1	197894
SHIM, 20 gauge (6.50" x 5.00")	0	1	1	197893
SHIM, 16 gauge (1.50" x 5.25")	0	1	1	148837
SHIM, 20 gauge (1.50" x 5.25")	0	1	2	148838
PAD, Wear	0	1	2	197891
<b>Cowling</b>				
LATCH, Flexible draw	2	2	2	144002
<b>Axles</b>				
SEAL, Differential pinion - front axle	0	0	1	170792
SEAL, Planetary hub - front and rear axle	0	0	1	154631
O-RING, Planetary hub - front axle	0	0	1	403046
SEAL, Inner axle shaft - front axle	0	0	1	151762
SEAL, Outer axle shaft - front axle	0	0	1	923829
SEAL, Differential pinion - rear axle	0	0	1	923894
O-RING, Planetary hub - rear axle	0	0	1	925533
SEAL, Gear box output shaft	0	0	1	170914
SEAL, Gear box input shaft	0	0	1	141370

# Section 1 – Platform





# 1.1 Platform with Three Drop Bars



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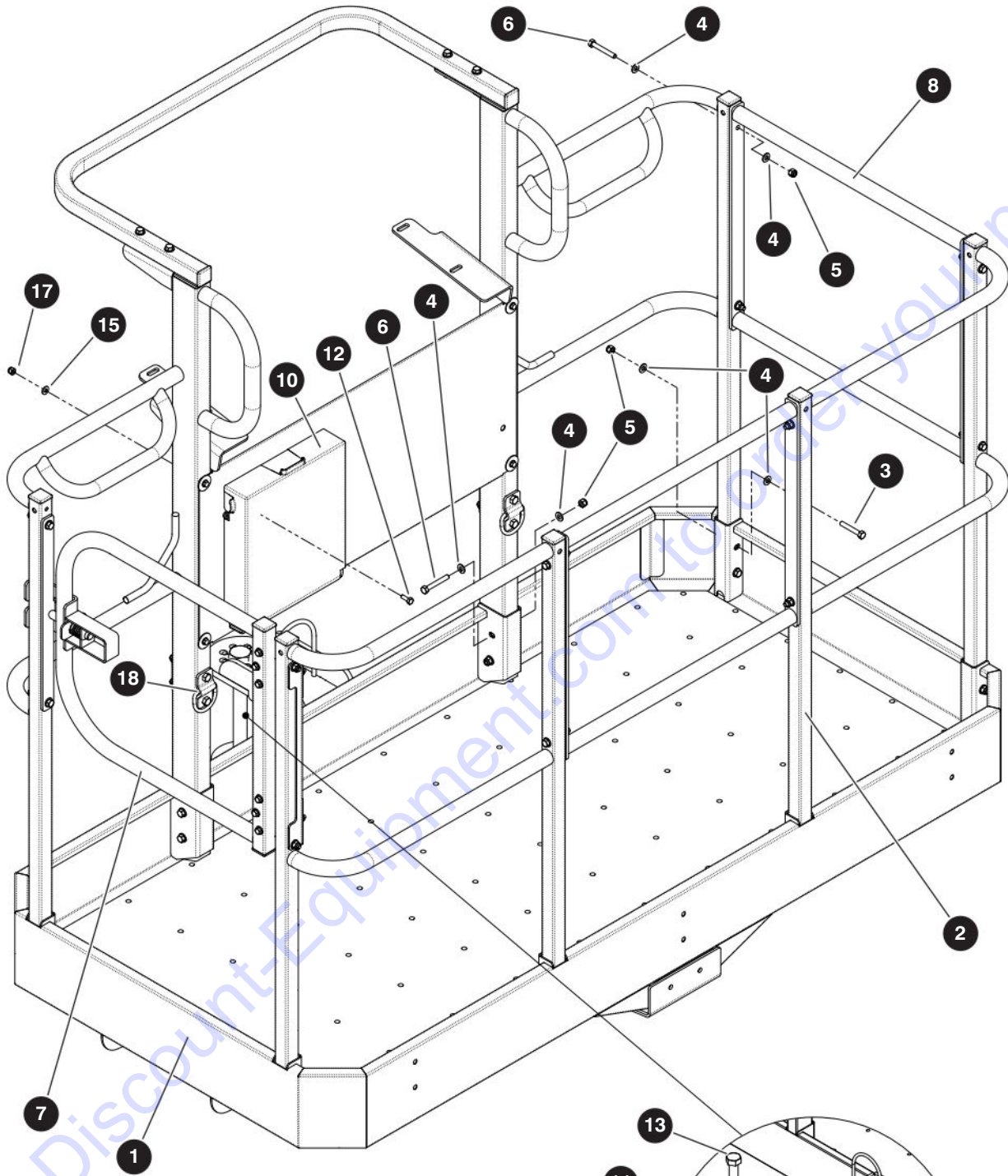
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## 1.1 Platform with Three Drop Bars

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	165139	1	PLATFORM ASSEMBLY - 8' Tri-Entry Drop Bars - <b>ANSI/CSA, CE &amp; AS</b>
<b>B</b>	165145	1	PLATFORM ASSEMBLY - 6' Tri-Entry Drop Bars - <b>ANSI/CSA, CE &amp; AS</b>
-	169127	1	• PLATFORM ASSEMBLY, <b>A</b>
	168608	1	• PLATFORM ASSEMBLY, <b>B</b>
1	(Ref.)	1	• • BASE, Platform (For components, refer to 1.3 Platform Base)
2	(Ref.)	1	• • RAILINGS (For components, refer to 1.4 Railings)
3	103865	12	• • BOLT, Hex head (0.312"-18 x 2.00" gr 5)
4	103996	32	• • WASHER, Flat (0.312")
5	103984	16	• • NUT, Hex head nylon lock (0.313"-18 gr 5)
6	103866	4	• • BOLT, Hex head (1.312"-18 x 2.25" gr 5)
7	(Ref.)	3	• • DROP BAR GATE (For components, refer to 1.6 Drop Bar Gate)
-	170630	1	• • D-RING ASSEMBLY
8	113122	1	• • • BRACKET, Safety ring
9	114989	1	• • • D-RING, Safety
10	103472	2	• • • WASHER, Flat (0.375")
11	104606	2	• • • NUT, Hex head nylon lock (0.375"-16, gr 5)
12	103915	2	• • • BOLT, Hex head (0.375"-16 x 3.50", gr 5)
13	171860	1	• • • WASHER
14	138559	1	• NUT, Torque lock (1"-8 gr C)
15	198789	1	• BOX, Manual
16	139193	8	• BOLT, Hex head (0.375"-16 x 0.875" gr 8)
17	103856	4	• BOLT, Hex head (0.25"-20 x 0.75" gr 5)
18	138696	1	• BOLT, Hex head (1.0"-8 x 10.5" gr 8)
19	125959	8	• WASHER, Flat hardened (0.375")
20	103995	4	• WASHER, Flat (0.25")
21	102646	1	• WASHER, Flat (1.00")
22	115649	4	• NUT, Hex head nylon lock (0.25"-20 gr 5)

## 1.2 Platform with Swing Gate



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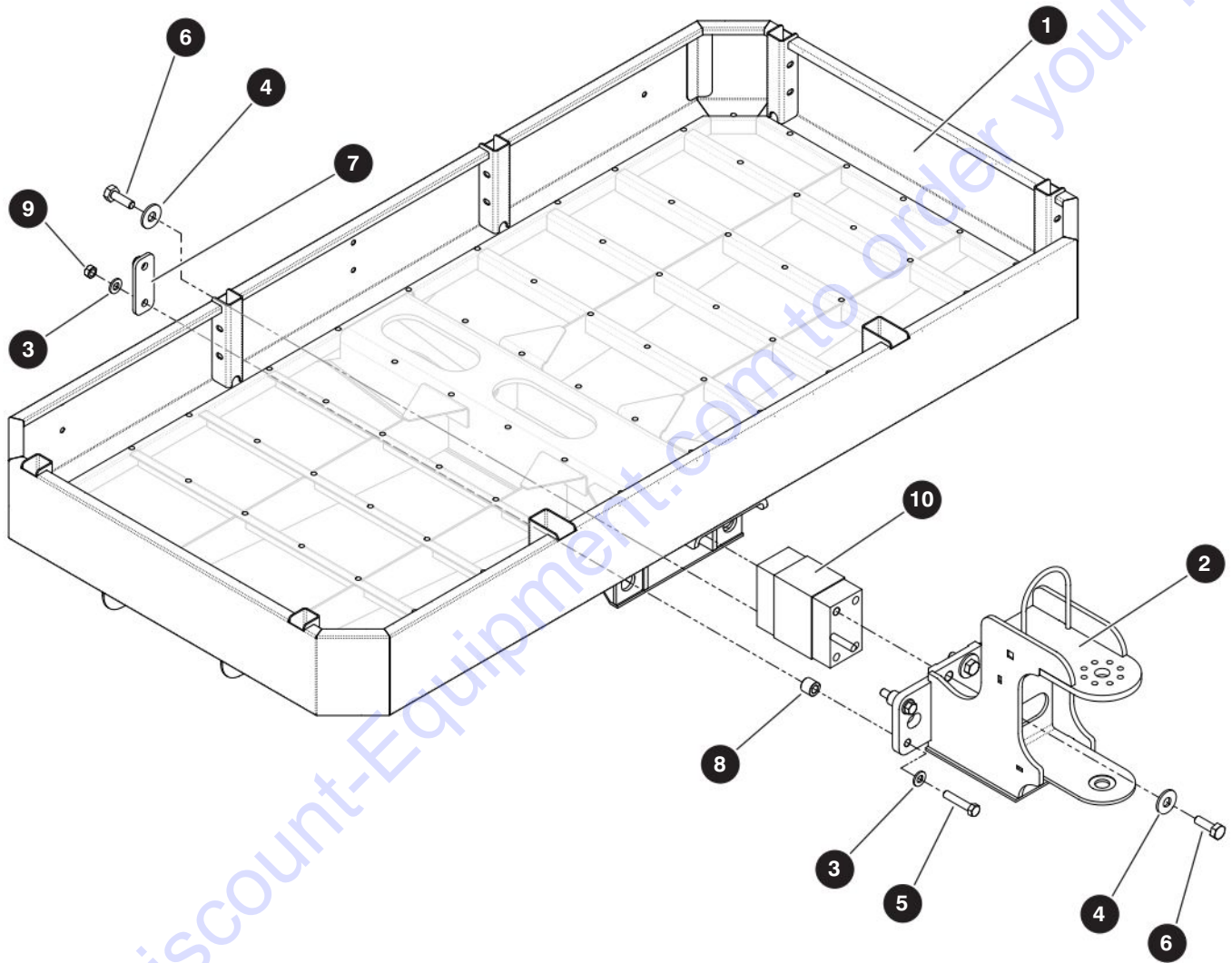
SKYJACK

## 1.2 Platform with Swing Gate

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	208637	1	PLATFORM ASSEMBLY - 8' Side Swing Gate - <b>ANSI/CSA, CE &amp; AS</b>
<b>B</b>	165142	1	PLATFORM ASSEMBLY - 8' Rear Swing Gate - <b>ANSI/CSA, CE &amp; AS</b>
<b>C</b>	198278	1	PLATFORM ASSEMBLY - 6' Side Swing Gate - <b>ANSI/CSA, CE &amp; AS</b>
<b>D</b>	165148	1	PLATFORM ASSEMBLY - 6' Rear Swing Gate - <b>ANSI/CSA, CE &amp; AS</b>
-	208635	1	• PLATFORM ASSEMBLY, <b>A</b>
	168380	1	• PLATFORM ASSEMBLY, <b>B</b>
	198280	1	• PLATFORM ASSEMBLY, <b>C</b>
	168594	1	• PLATFORM ASSEMBLY, <b>D</b>
1	(Ref.)	1	• • BASE, Platform (For components, refer to 1.3 Platform Base)
2	(Ref.)	1	• • RAILINGS (For components, refer to 1.4 Railings)
3	103865	12	• • BOLT, Hex head (0.312"-18 x 2.00" gr 5)
4	103996	48	• • WASHER, Flat (0.312")
5	103984	24	• • NUT, Hex head nylon lock (0.313"-18 gr 5)
6	103866	12	• • BOLT, Hex head (1.312"-18 x 2.25" gr 5)
7	(Ref.)	1	• • SWING GATE (For components, refer to 1.5 Swing Gate)
8	159456	2	• • RAILING, Side
9	138559	1	• NUT, Torque lock (1"-8 gr C)
10	198789	1	• BOX, Manual
11	139193	8	• BOLT, Hex head (0.375"-16 x 0.875" gr 8)
12	103856	4	• BOLT, Hex head (0.25"-20 x 0.75" gr 5)
13	138696	1	• BOLT, Hex head (1.0"-8 x 10.5" gr 8)
14	125959	8	• WASHER, Flat hardened (0.375")
15	103995	4	• WASHER, Flat (0.25")
16	102646	1	• WASHER, Flat (1.00")
17	115649	4	• NUT, Hex head nylon lock (0.25"-20 gr 5)
18	170630	2	• D-RING
19	173200	1	• Manual, Manual of responsibilities (not shown)



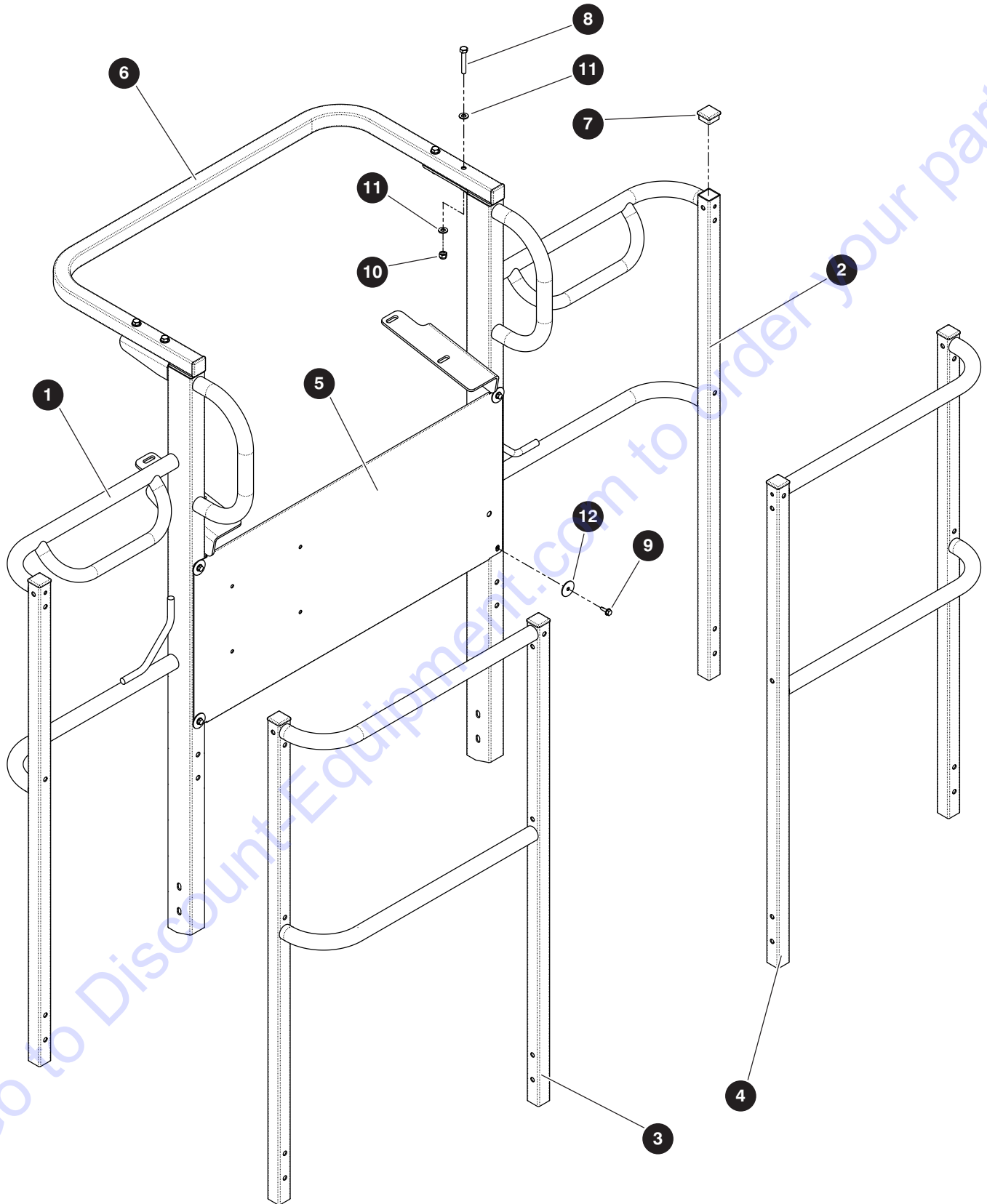
# 1.3 Platform Base



# 1.3 Platform Base

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	168240	1	PLATFORM BASE ASSEMBLY - <b>36" x 96"</b>
<b>B</b>	165411	1	PLATFORM BASE ASSEMBLY - <b>36" x 72"</b>
1	168222	1	• WELDMENT, Platform base, <b>A</b>
	165412	1	• WELDMENT, Platform base, <b>B</b>
2	168230	1	• MOUNT, Rotary Actuator
3	104379	8	• WASHER, Flat hardened (0.50")
4	144329	8	• WASHER, Flat hardened (M16)
5	144575	4	• BOLT, Hex head (0.50"-13 x 2.50" gr 8)
6	144502	8	• BOLT, Hex head (M16 x 1.5 x 45 gr 8.8)
7	144365	2	• WASHER, Safety
8	144574	4	• SPACER, Load cell
9	138791	4	• NUT, Torque lock (0.50"-13 gr C)
10	167182	1	• LOAD CELL, MOBA
11	221394	1	CORD, Patch - MOBA load cell (not shown)
12	144456	1	TOOL, Hand set - MOBA Teach-in (not shown)

# 1.4 Railings

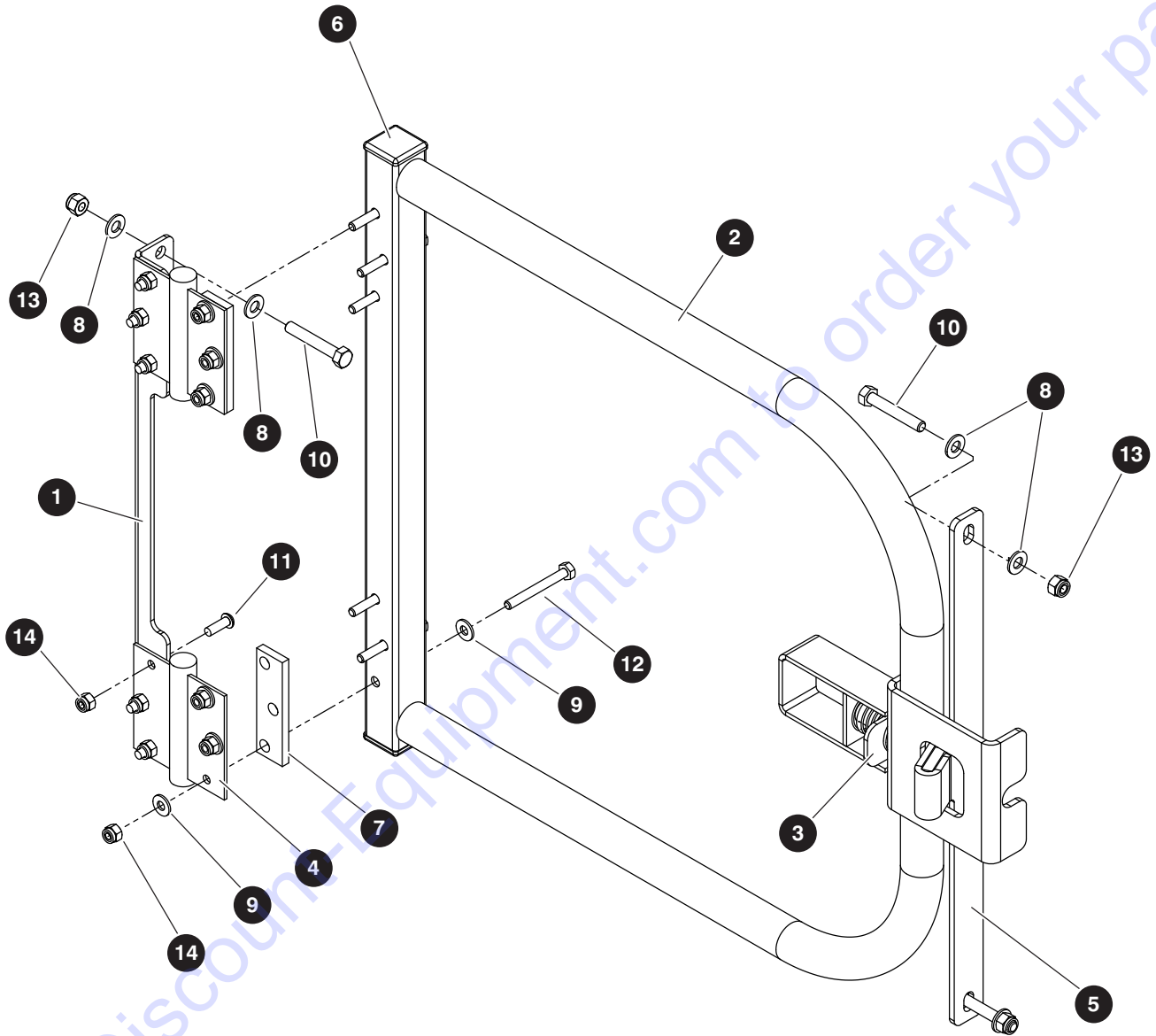


## 1.4 Railings

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	154293	1	RAILINGS - <b>36" x 96" Platform</b>
<b>B</b>	154334	1	RAILINGS - <b>36" x 72" Platform</b>
1	159581	1	• RAILING, Front LH, <b>A</b>
	154319	1	• RAILING, Front LH, <b>B</b>
2	159585	1	• RAILING, Front RH, <b>A</b>
	154318	1	• RAILING, Front RH, <b>B</b>
3	159583	1	• RAILING, Back LH, <b>A</b>
	154321	1	• RAILING, Back LH, <b>B</b>
4	159584	1	• RAILING, Back RH, <b>A</b>
	154320	1	• RAILING, Back RH, <b>B</b>
5	159586	1	• GUARD, Front
6	149098	1	• RAILING, Front
7	100702	8	• CAP, End - plastic
8	103865	4	• BOLT, Hex head (0.312"-18 x 2.00" gr 5)
9	103632	4	• SCREW, Hex head self-tapping (0.25"-14 x 0.75")
10	103984	4	• NUT, Lock (0.313"-18 gr 5)
11	103996	8	• WASHER, Flat (0.312")
12	700598	4	• WASHER, Fender



# 1.5 Swing Gate



M164618AB

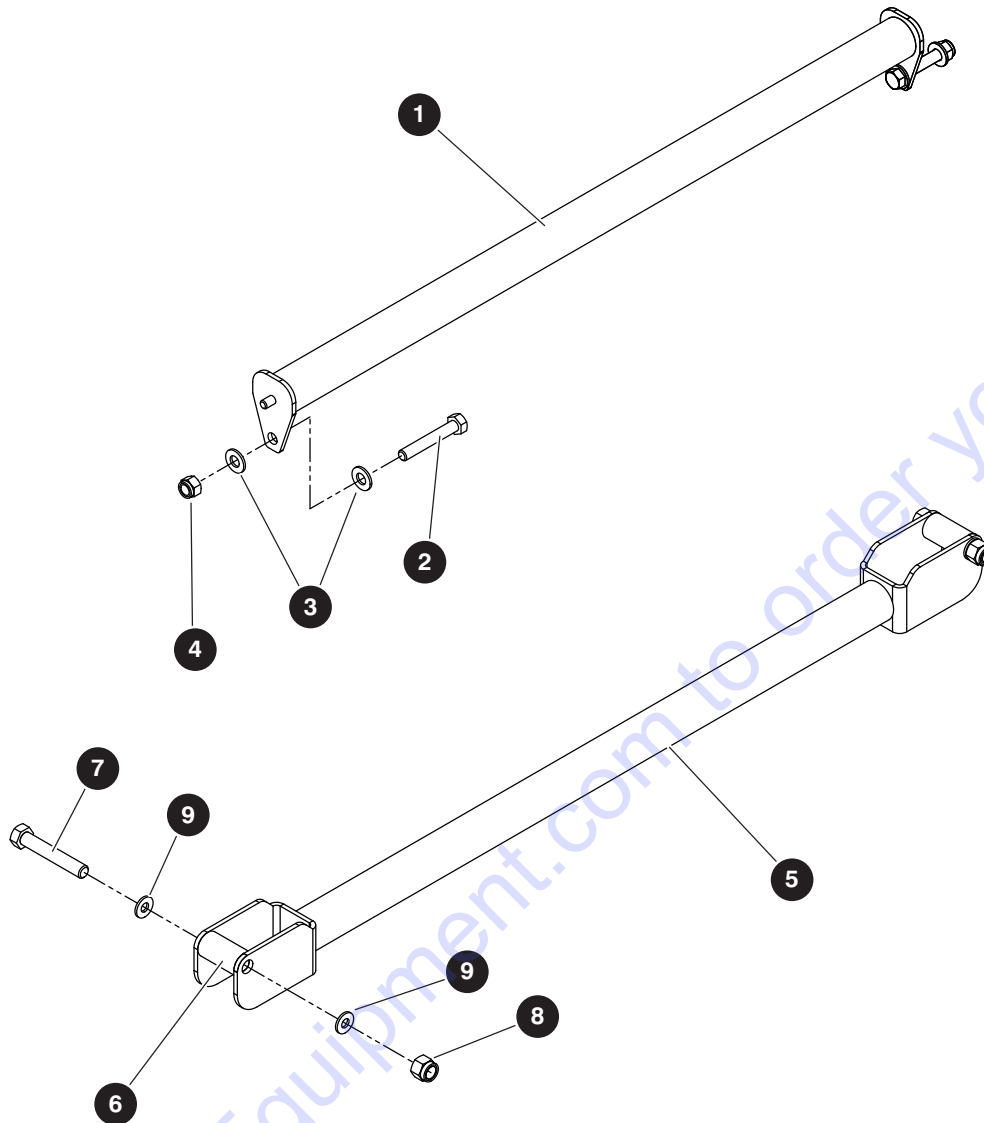
229037ADA

SJ85 AJ

## 1.5 Swing Gate

Index No.	Skyjack Part No.	Qty.	Description
-	194073	1	SWING GATE FIELD KIT
-	164618	1	• SWING GATE ASSEMBLY
1	164590	1	• • BRACKET, Hinge mounting
2	164619	1	• • WELDMENT, Gate
3	110824	1	• • LATCH, Door spring pin
	105312	1	• • • LATCH, Nylon bed
	109377	1	• • • PIN, Latch
	105307	1	• • • HANDLE, Gate latch
	103107	1	• • • SPRING, Compression
	100950	1	• • • PIN, Roll (1/8" dia x 1.00")
4	209527	2	• • HINGE, Spring gate satin chrome
5	166287	1	• • WELDMENT, Locking plate
6	100702	2	• • PLUG, Plastic tube (1-1/4" x 1-1/4")
7	164592	2	• • TAB, Hinge
8	103996	8	• • WASHER, Flat (0.31")
9	103995	12	• • WASHER, Flat (0.25")
10	103865	4	• • BOLT, Hex head (0.31"-18 x 2.00" gr 5)
11	139168	6	• • SCREW, Button head (0.25"-20 x 0.75")
12	103862	6	• • BOLT, Hex head (0.25"-20 x 2.25" gr 5)
13	103984	4	• • NUT, Hex head nylon lock (0.31"-18 gr B)
14	115649	12	• • NUT, Hex head nylon lock (0.25"-20 gr 5)
15	194065	1	• INSTRUCTION, Swing gate installation (not shown)

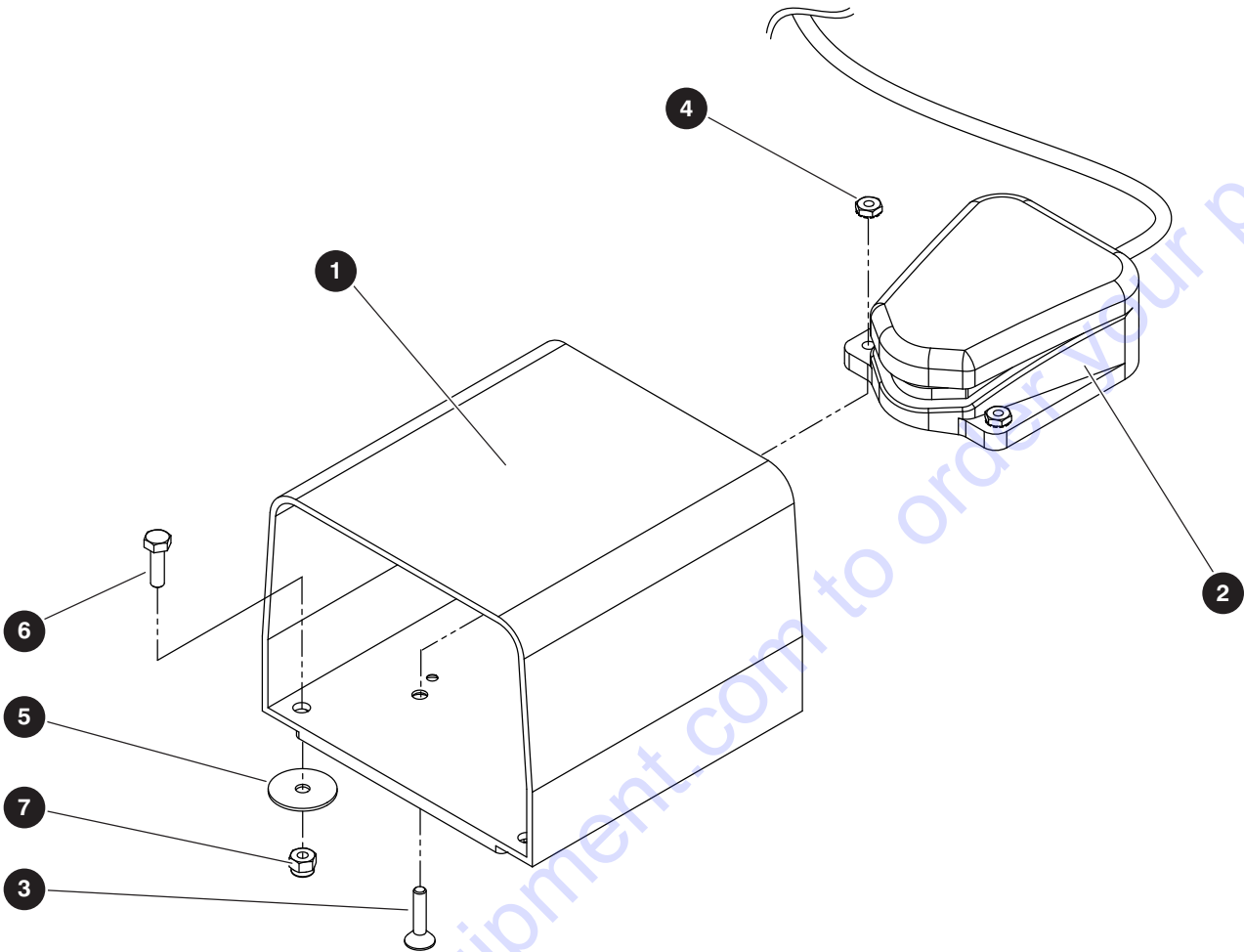
# 1.6 Drop Bar Gate



M192280AA

Index No.	Skyjack Part No.	Qty.	Description
-	194069	1	DROP BAR GATE FIELD KIT
-	171986	1	• DROP BAR GATE
1	160708	1	• • TIE BAR
2	103865	2	• • BOLT, Hex head (0.312"-18 x 2.00" gr 5)
3	103996	4	• • WASHER, Flat (0.312" SAE)
4	103984	2	• • NUT, Lock (0.313"-18 gr 5 nylon)
-	162965	1	• • DROP BAR ASSEMBLY
5	162958	1	• • • DROP BAR
6	154386	2	• • • SPACER (0.375" ID x 0.75" OD x 1.375" lg)
7	103872	2	• • • BOLT, Hex head (0.375"-16 x 2.25" gr 5)
8	104606	2	• • • NUT, Lock (0.375"-16 gr 5 nylon)
9	103472	4	• • • WASHER, Flat (0.375" SAE)
10	194067	1	• INSTRUCTION, Drop bar installation (not shown)

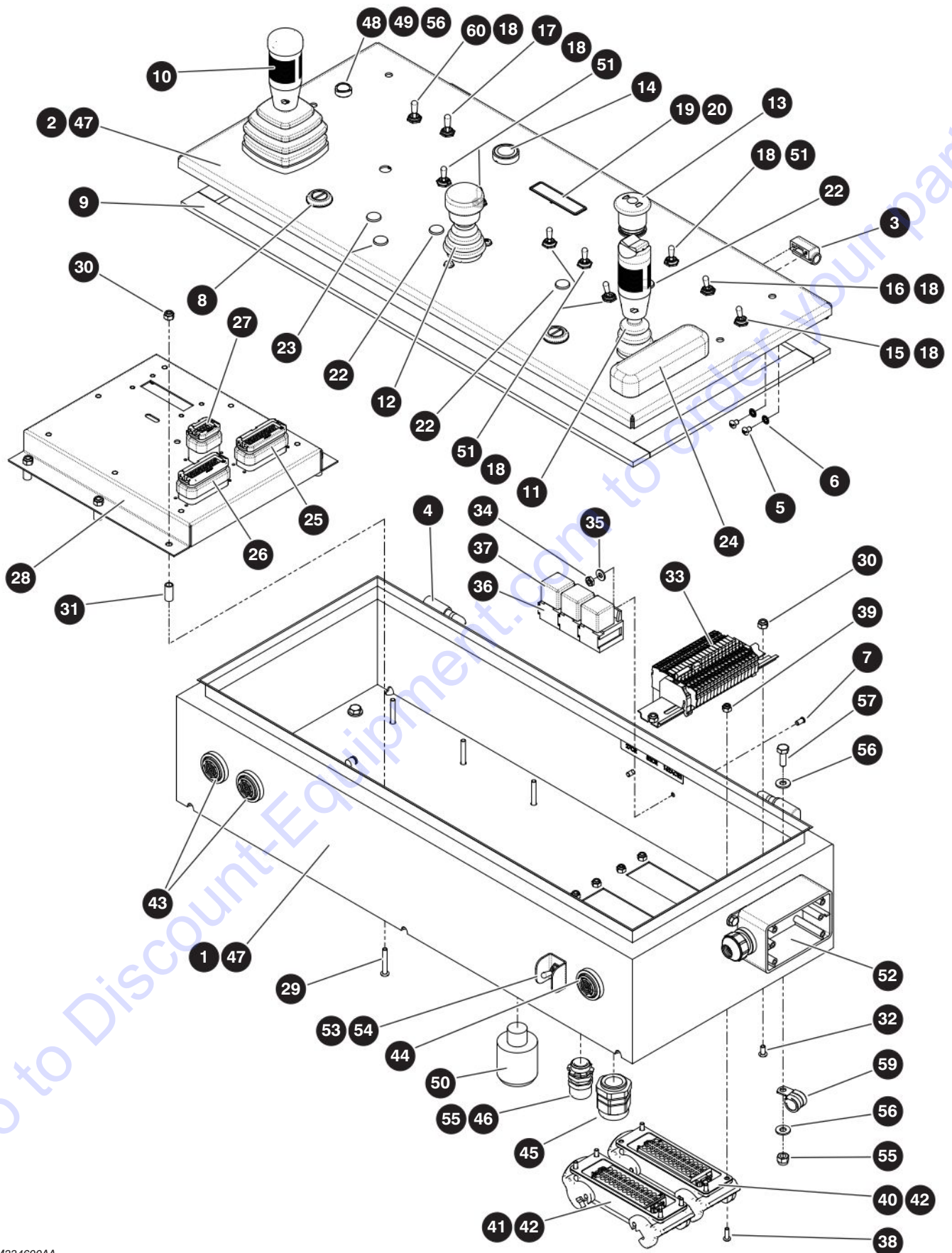
# 1.7 Footswitch



M154127AC\_1

Index No.	Skyjack Part No.	Qty.	Description
-	154127	1	FOOTSWITCH
1	700188	1	• COVER, Footswitch
2	700187	1	• SWITCH, Foot
3	139688	2	• SCREW, Flat head machine (0.25"-20 x 1.00")
4	130017	2	• NUT, Hex head K-lock
5	700598	4	WASHER, Fender
6	103891	4	BOLT, Hex head (0.25"-20 x 0.875" gr 5)
7	115649	4	NUT, Hex head nylon lock (0.25"-20 gr 5)

# 1.8 Platform Control Box



M334600AA

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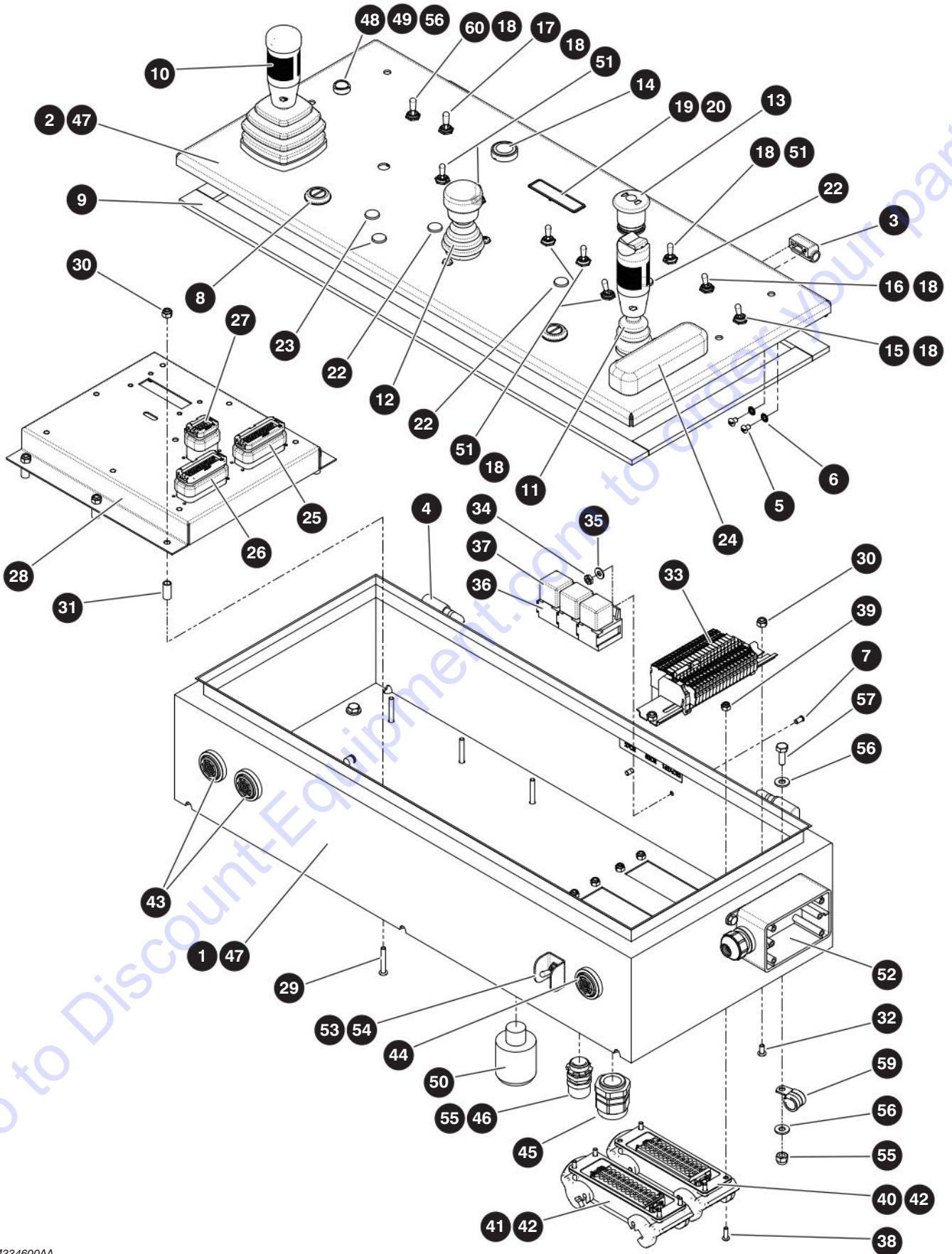
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## 1.8 Platform Control Box

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	218318	1	PLATFORM CONTROLS - <b>ANSI/CSA</b>
<b>B</b>	198225	1	PLATFORM CONTROLS - <b>CE &amp; AS with Deutz D2011</b>
<b>C</b>	224600	1	PLATFORM CONTROLS - <b>CE &amp; AS with Deutz TCD2.2</b>
-	198360	1	• PLATFORM CONTROL BOX SUBASSEMBLY, <b>A, B</b>
	226367	1	• PLATFORM CONTROL BOX SUBASSEMBLY, <b>C</b>
1	198361	1	• • BODY, Control box, <b>A, B</b>
	226368	1	• • BODY, Control box, <b>C</b>
2	198362	1	• • LID, Control box, <b>A, B</b>
	226369	1	• • LID, Control box, <b>C</b>
3	149384	1	• • HINGE, LH - nylon
4	149385	1	• • HINGE, RH - nylon
5	103959	8	• • SCREW, Round head machine (10-24 x 0.25")
6	163512	8	• • WASHER, Lock - int tooth (#10)
7	159879	2	• • STUD (10-32 x 0.375")
8	138715	2	• • LATCH, Door - slotted
9	138334	1	• • WEATHER STRIP, Cut
10	138225	1	• CONTROLLER, Dual axis (Boom/Turret) (For components, refer to 1.9 Boom/Turret Controller)
11	138224	1	• CONTROLLER, Single axis (Drive/Steer) (For components, refer to 1.10 Drive/Steer Controller)
12	148707	1	• CONTROLLER, Single axis (Riser) (For components, refer to 1.11 Riser Boom Controller)
13	144647	1	• SWITCH, E-stop
14	144648	1	• PUSHBUTTON, Horn
15	115747	1	• SWITCH, Toggle (1NT1-3)
16	115574	1	• SWITCH, Toggle (1NT1-2)
17	124446	1	• SWITCH, Toggle (2NT1-50)
18	144016	9	• SEAL, Panel bushing - toggle switch
19	138229	1	• MODULE, Upper indicating
20	138379	1	• CONNECTOR, 8 pin plug - Metri-pack
21	102921	1	• DIODE, T6A40L (not shown)
22	171502	2	• LIGHT, Indicator - 14V amber, <b>A, B</b>
	171502	3	• LIGHT, Indicator - 14V amber, <b>C</b>
23	171501	2	• LIGHT, Indicator - 14V green
24	149402	1	• HANDREST
25	149456	1	• PLUG, 35 position - white
26	165612	1	• PLUG, 35 position - grey
27	198366	1	• PLUG, 14 position - black
28	208873	1	• MODULE, Boom control (SCM)
29	122498	6	• SCREW, Round head machie (10-32 x 1.25")

# 1.8 Platform Control Box



M334600AA

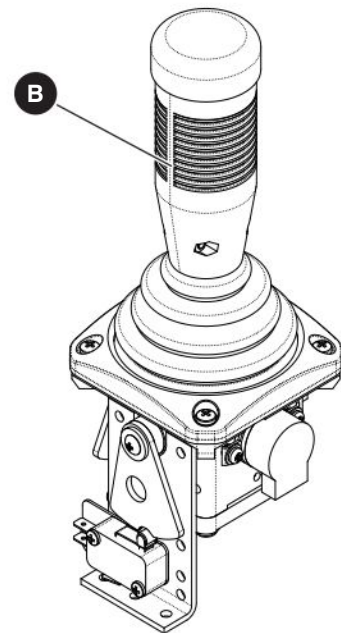
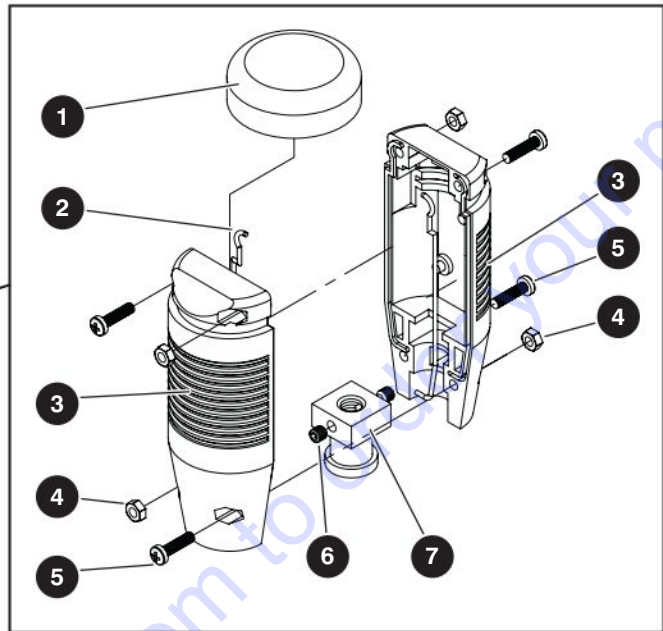
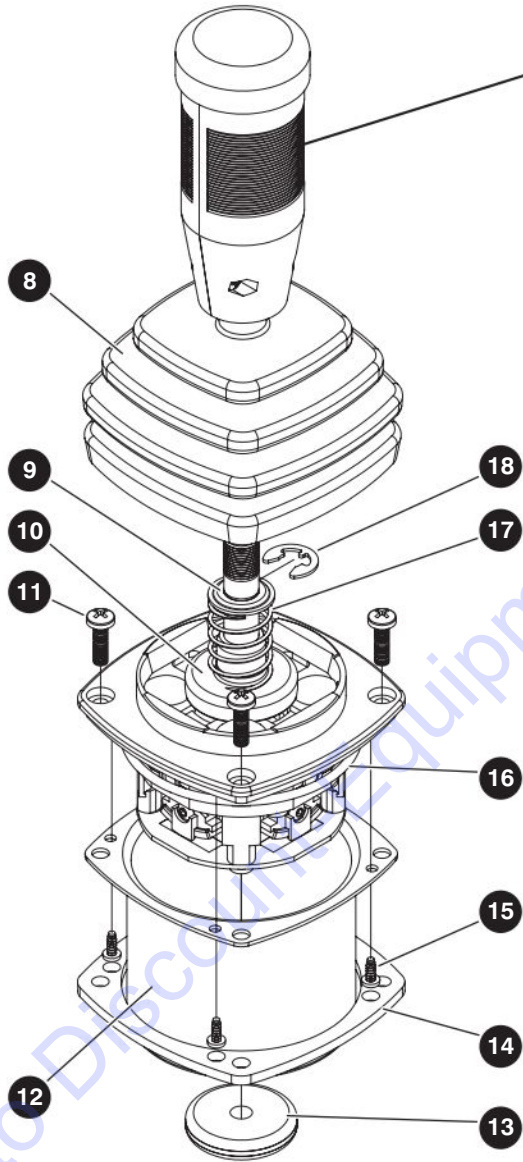
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## 1.8 Platform Control Box

Index No.	Skyjack Part No.	Qty.	Description
30	300450	8	• NUT, Lock (10-32 gr 5 nylon)
31	128571	6	• SLEEVE, Anti-vibration mount
32	115545	2	• SCREW, Round head machine (10-32 x 0.375")
33	(Ref.)	1	• TERMINAL STRIP, Platform (For components, refer to 1.12 Platform Terminal Strip)
34	104003	2	• NUT, Hex (10-32)
35	104694	2	• WASHER, Flat (#10)
36	138749	3	• SOCKET, Relay
37	127131	3	• RELAY, 12 V 40 amp
38	103957	8	• SCREW, Round head machine (8-32 x 0.50")
39	138765	8	• NUT, Lock (8-32 gr 5 nylon)
40	138755	1	• PLUG, Spring - 24 pole 16A
41	138756	1	• SOCKET, Spring - 24 pole 16A
42	138751	2	• HOUSING, Open bottom - 24 pole levered
43	103057	1	• BEEPER, Slow pulsing (4-28 VDC), <b>A, B</b>
	103057	2	• BEEPER, Slow pulsing (4-28 VDC), <b>C</b>
44	144387	1	• ALARM, Continuous tone
45	116266	1	• STRAIN RELIEF (PG21)
46	103036	3	• STRAIN RELIEF (0.50 NPT), <b>A, B</b>
	103036	4	• STRAIN RELIEF (0.50 NPT), <b>C</b>
47	(Ref.)	1	• LABEL ASSEMBLY, Platform Controls (For components, refer to 10.4 Labels - Platform)
48	166087	1	• PUSHBUTTON, Flush spring return - yellow
49	166086	1	• BLOCK, Contact - D 12-24 V
50	166110	1	• ALARM/FLASHER, 12V, red LED
51	102853	6	• SWITCH, Toggle (1NT1-7)
52	(Ref.)	1	• PLATFORM OUTLET BOX, <b>A</b> (For components, refer to 1.14 Platform Outlet - ANSI/CSA)
53	115573	1	• SWITCH, Toggle (1TL1-8)
54	111181	1	• GUARD, Toggle switch
55	115649	4	NUT, Lock (0.25"-20 gr 5 nylon)
56	103995	8	WASHER, Flat (0.25")
57	103856	4	BOLT, Hex head (0.25"-20 x 0.75" gr 5)
58	198203	1	HARNESS, Jib & platform rotate (not shown)
59	103024	1	CLAMP, Single clip (G8)
60	115574	1	SWITCH, TOGGLE - <b>Kubota WG3800 engine</b>

# 1.9 Boom/Turret Controller



M138225AA

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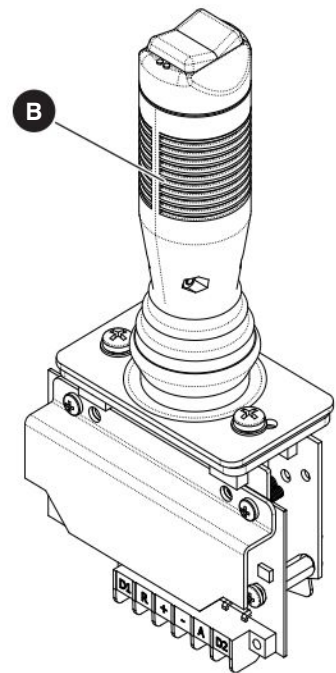
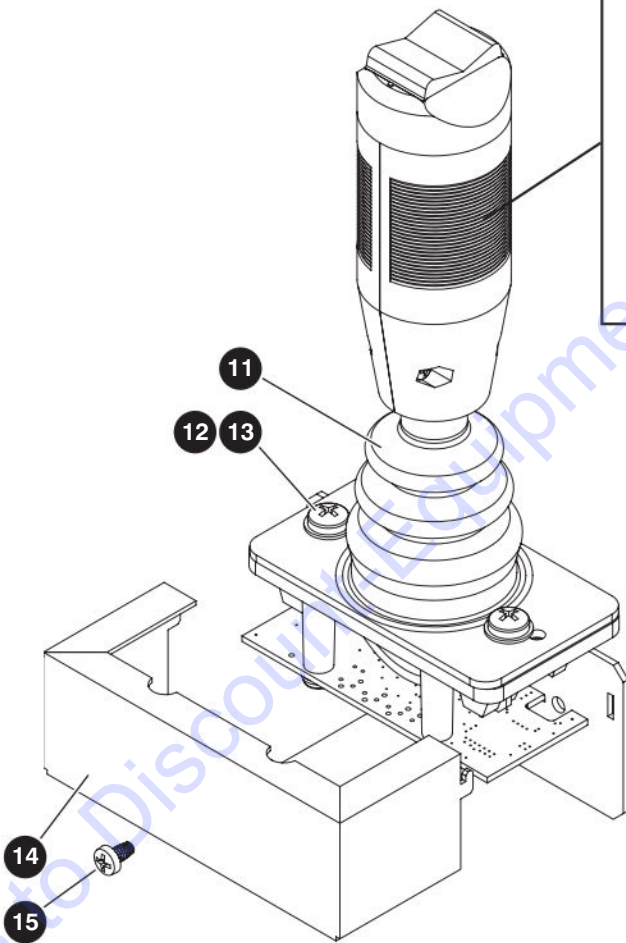
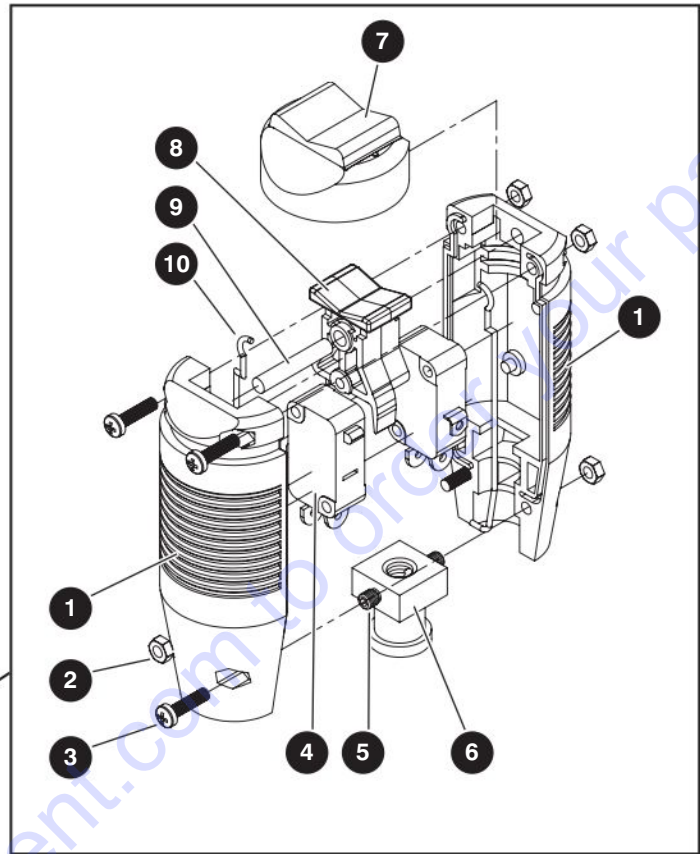
SJ85 AJ

## 1.9 Boom/Turret Controller

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	138225	-	BOOM / TURRET CONTROLLER (DUAL AXIS)
1	141326	1	• CAP, Rubber
2	141327	2	• GASKET
3	141325	2	• HANDLE, Half
4	141328	4	• NUT
5	141329	4	• SCREW
6	141331	2	• SCREW, Set
7	141330	1	• COUPLING, (10 mm)
8	141313	1	• BOOT
9	141323	1	• WASHER, Retainer
10	141315	1	• SHOE, Spring
11	141321	4	• SCREW, Mounting (M4)
12	141316	1	• CAN, Enclosure
13	141320	1	• GROMMET, Rubber
14	141317	1	• GASKET, Mounting
15	141319	4	• SCREW
16	141318	1	• O-RING
17	141324	1	• SPRING, Compression
18	141322	1	• CLIP, Retainer
<b>B</b>	220626	1	RISER BOOM CONTROLLER (Single Axis) - Potentiometer style - <i>Optional</i>



# 1.10 Drive/Steer Controller



M138224AA

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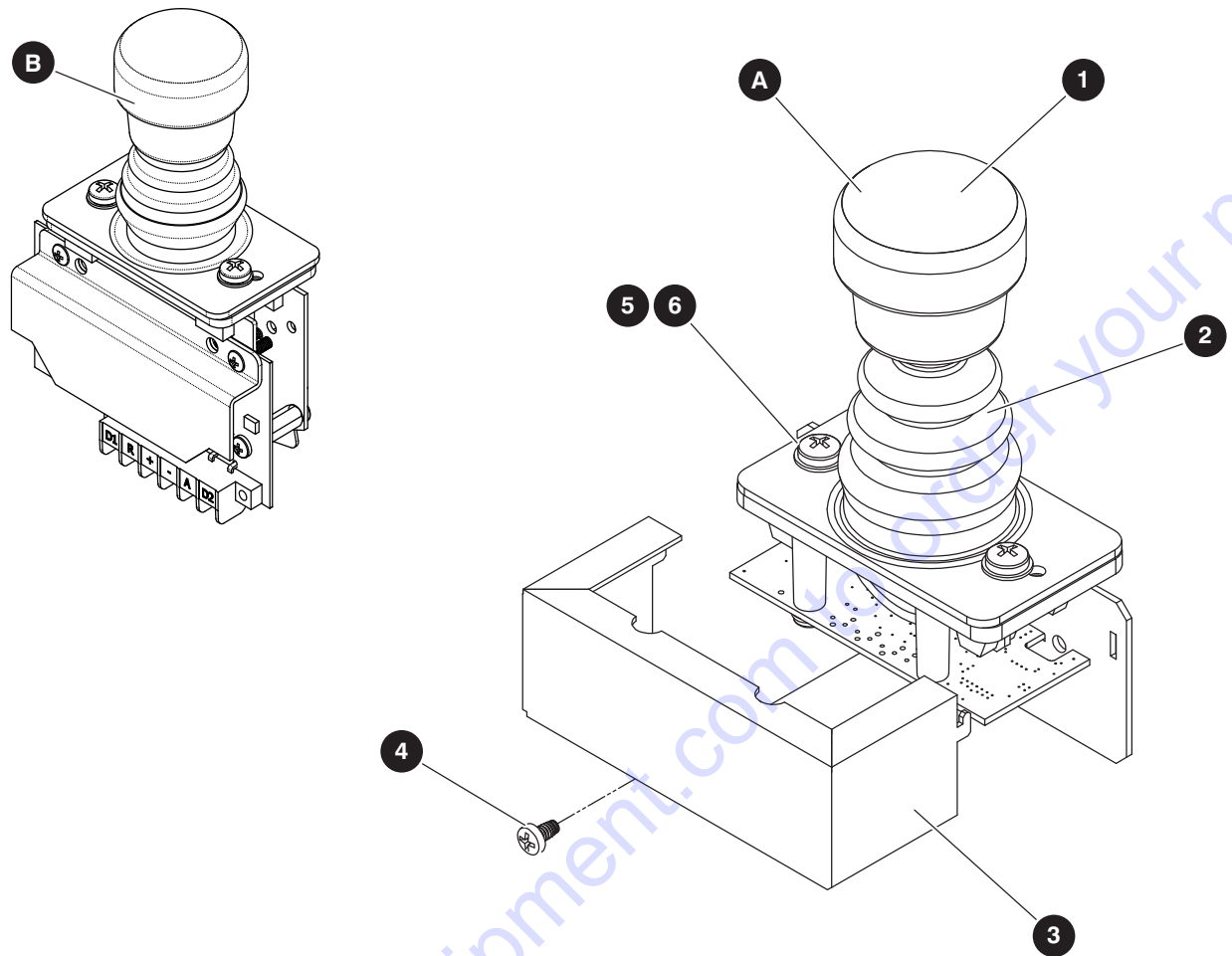
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## 1.10 Drive/Steer Controller

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	138224	-	DRIVE / STEER CONTROLLER (SINGLE AXIS)
1	141338	2	• HANDLE, Half
2	141328	4	• NUT
3	141329	4	• SCREW
4	141342	2	• MICROSWITCH
5	141331	2	• SCREW, Set
6	141343	1	• COUPLING, (8 MM)
7	141339	1	• CAP, Rubber
8	141340	1	• ROCKER
9	141341	1	• ROCKER, Axle
10	141327	2	• GASKET
11	141334	1	• BOOT ASSEMBLY, Standard
12	141336	2	• SCREW Mounting
13	141335	2	• WASHER, Mounting
14	141333	1	• ENCLOSURE
15	141337	1	• SCREW, Enclosure
<b>B</b>	220627	1	DRIVE / STEER CONTROLLER (SINGLE AXIS) - Potentiometer style - <b>Optional</b>

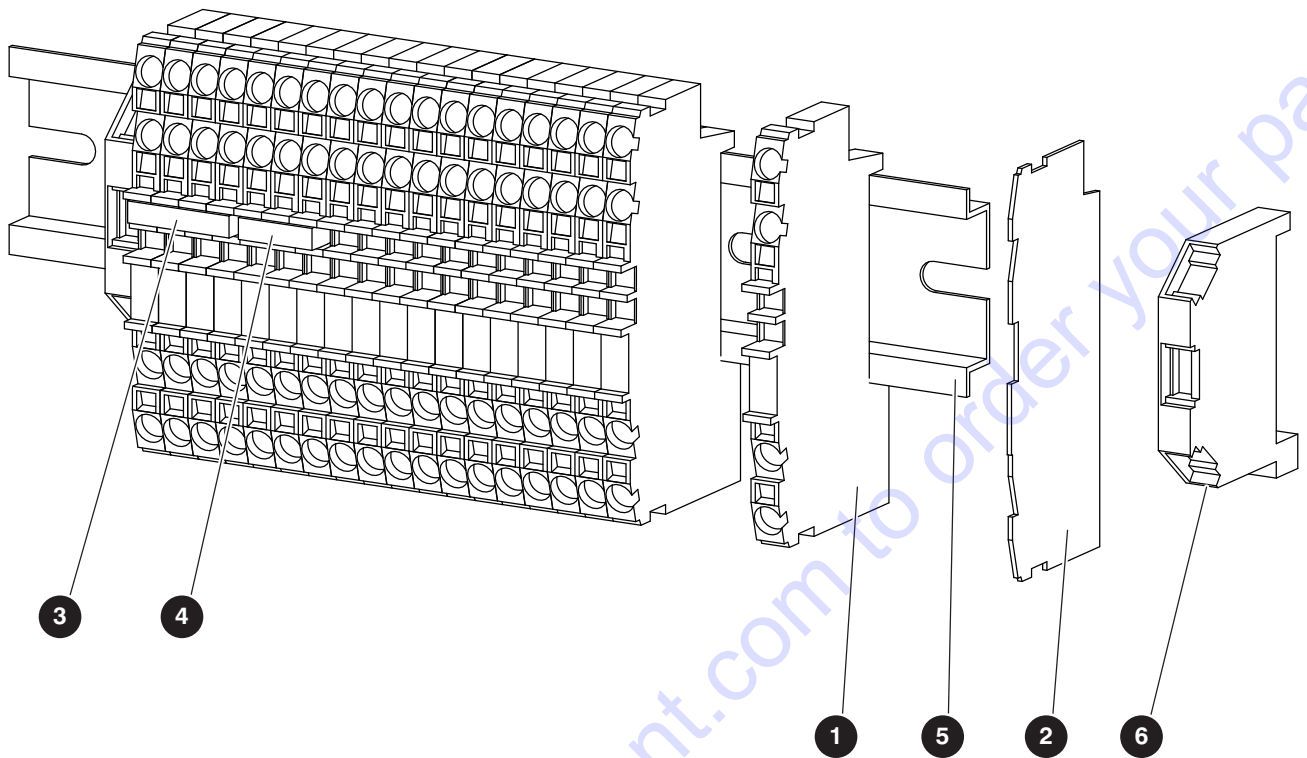
# 1.11 Riser Boom Controller



M148707AA

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	148707	1	RISER BOOM CONTROLLER (SINGLE AXIS)
1	154648	1	• CAP, Handle
2	141334	1	• BOOT, Standard
3	141333	1	• ENCLOSURE
4	141337	1	• SCREW, Enclosure
5	141336	2	• SCREW, Mount
6	141335	2	• WASHER, Mount
<b>B</b>	220626	1	RISER BOOM CONTROLLER (Single Axis) - Potentiometer style - <b>Optional</b>

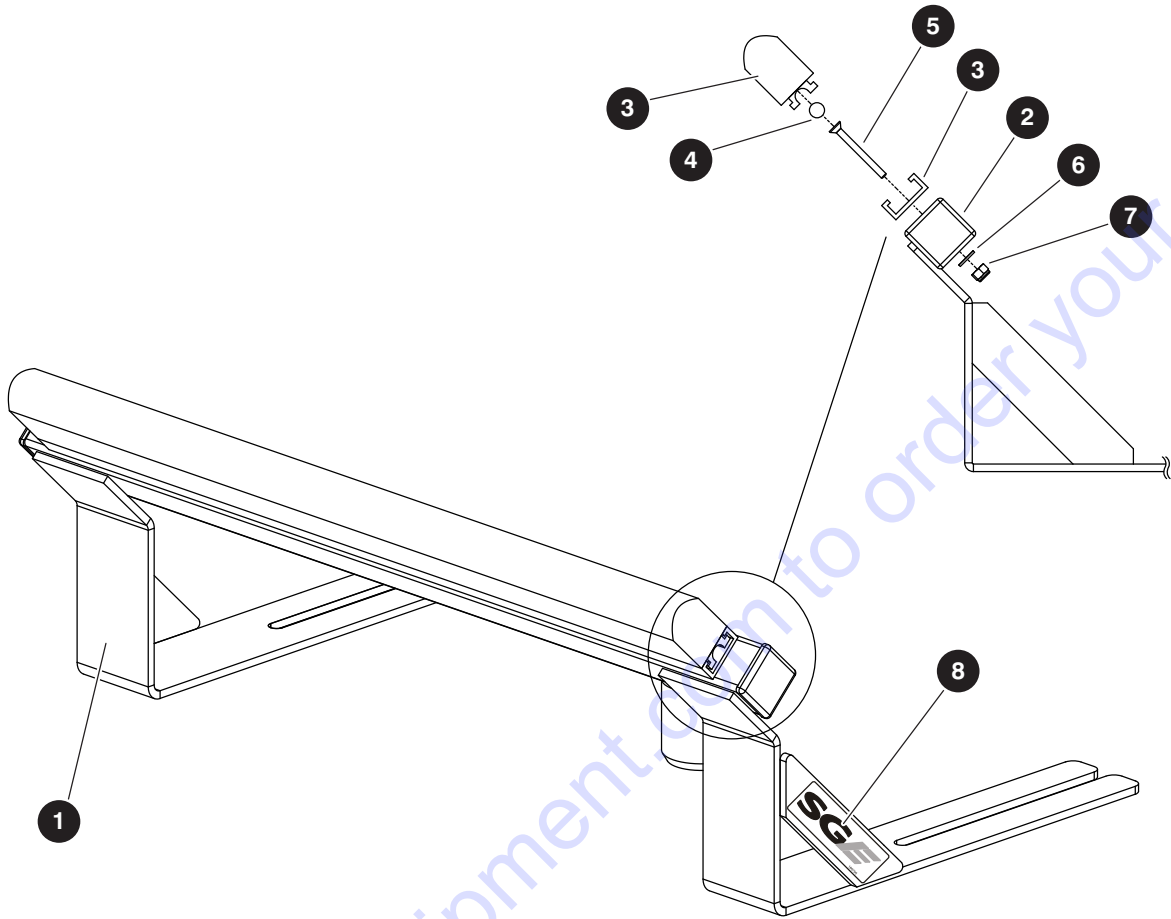
## 1.12 Platform Terminal Strip



M123456AA

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	198367	1	PLATFORM TERMINAL STRIP - <b>ANSI/CSA (all) and CE &amp; AS with Deutz D2011</b>
<b>B</b>	224604	1	PLATFORM TERMINAL STRIP - <b>CE with Deutz TCD2.2</b>
1	137940	19	• TERMINAL BLOCK (4 cond through), <b>A</b>
	137940	20	• TERMINAL BLOCK (4 cond through), <b>B</b>
2	137941	1	• PLATE, End/intermediate
3	168553	1	• JUMPER, 4-pin (25 A)
4	137942	2	• JUMPER, 3-pin (25 A), <b>A</b>
	137942	3	• JUMPER, 2-pin (25 A), <b>B</b>
5	102874	7"	• RAIL, DIN (180 mm)
6	707147	2	• STOP, End

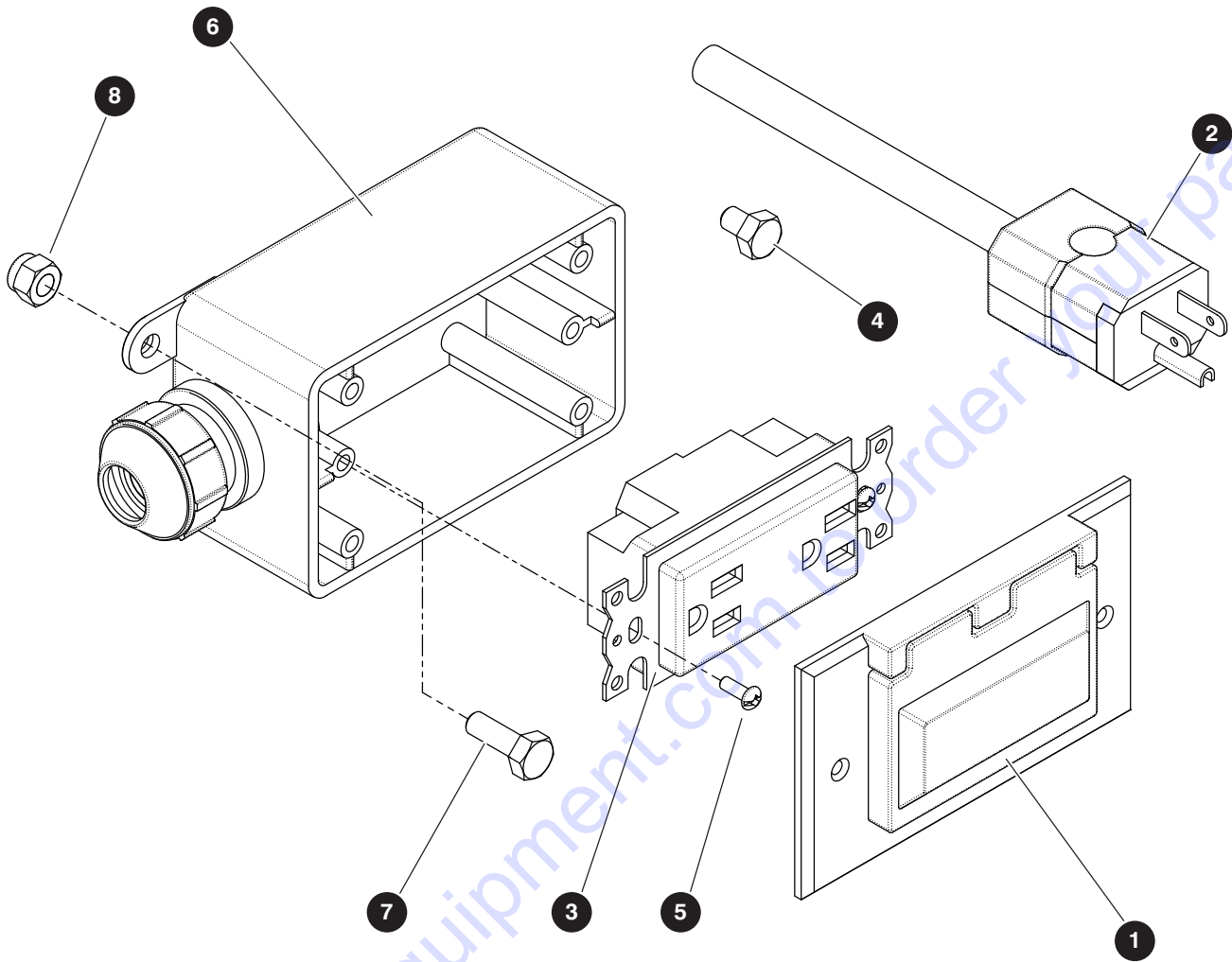
# 1.13 SGE



M198348AA

Index No.	Skyjack Part No.	Qty.	Description
-	198348	1	SGE
1	166101	1	• SUPPORT, Sensing edge
2	100702	2	• PLUG, Tube (1.25" x 1.25")
3	166107	1	• SENSING EDGE
4	166104	1	• ROD, Sensing edge lock
5	166105	3	• SCREW, Flat head cap (10-32 x 1.75" gr 5)
6	104694	3	• WASHER, Flat (#10)
7	300450	3	• NUT, Lock (10-32 gr 5 nylon)
8	166756	2	• LABEL, SGE
9	167218	1	• SCREW, Slotted binding head (6-32 x 0.25") (not shown)

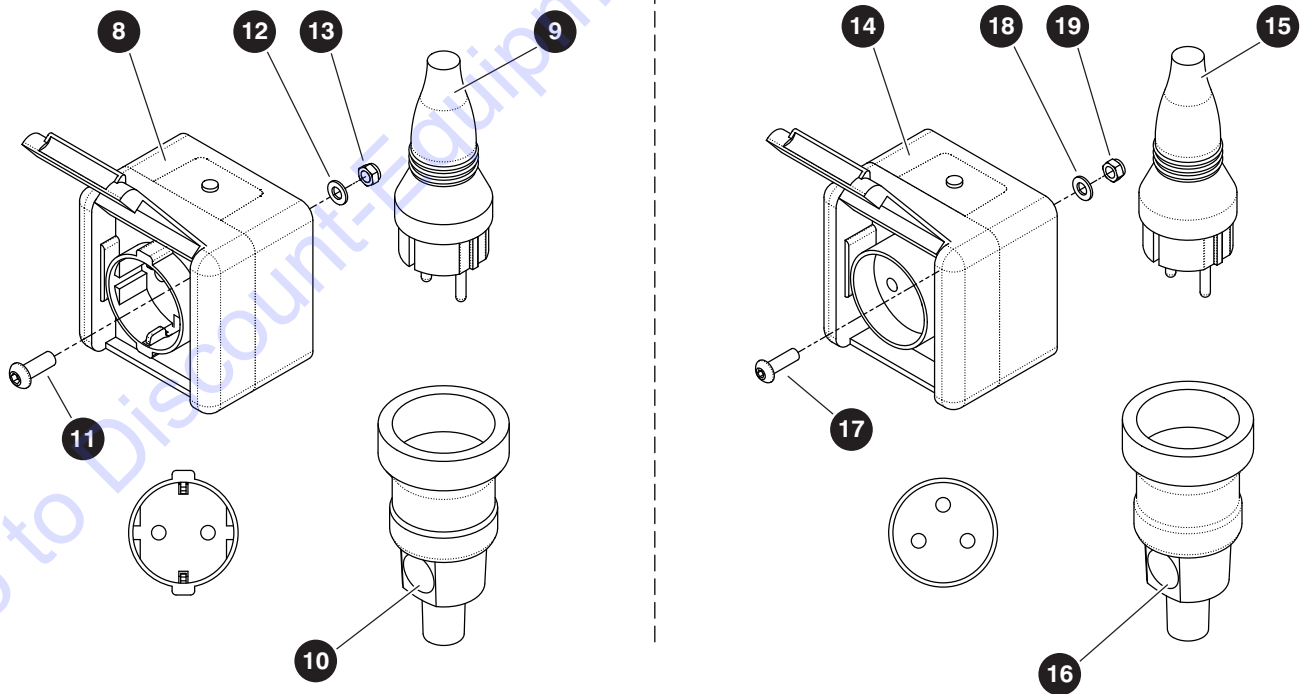
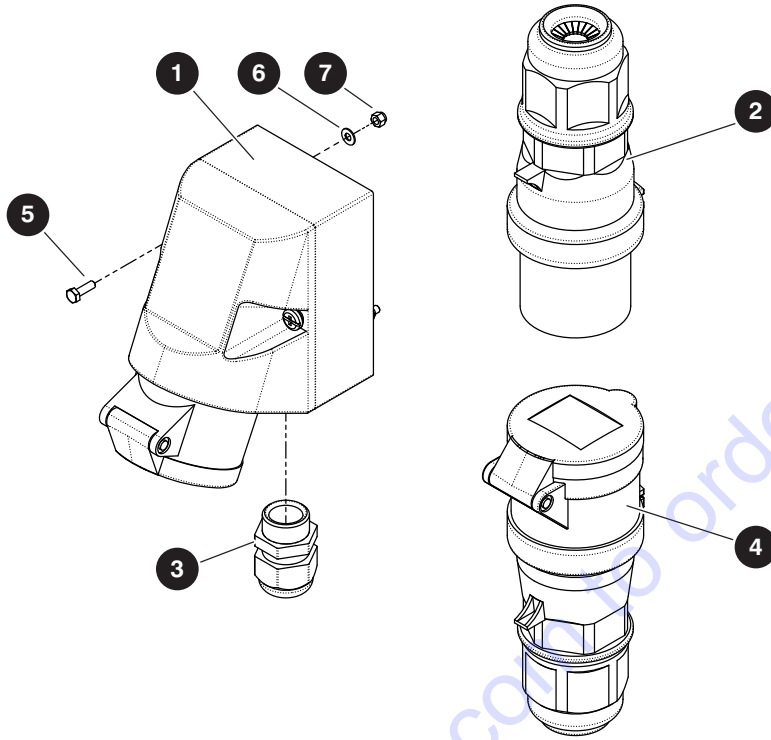
## 1.14 Platform Outlet - ANSI/CSA



M165460AB\_2

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	165460	1	PLATFORM 110V OUTLET - <b>ANSI/CSA</b>
1	109699	1	• PLATE, Receptacle
2	165494	1	• CABLE, 110V
	104208	1	• • PLUG, Male
3	109698	1	• RECEPTACLE, GFI
4	112495	1	• BOLT, Hex head (0.25"-20 x 0.375" gr 5)
5	121461	2	• BOLT, Machine head round (6-32 x 0.375")
6	136328	1	BOX, Outlet
7	103858	2	BOLT, Hex head (0.25"-20 x 1.25" gr 5)
8	115649	2	NUT, Lock (0.25"-20 gr 5)
9	159960	4	SPACER, Nylon (0.403" ID x 0.75" OD x 0.312" LG) (not shown)

# 1.15 Power to Platform - Outlet and Plugs - CE



M226505AA\_M226509AA\_M226513AA

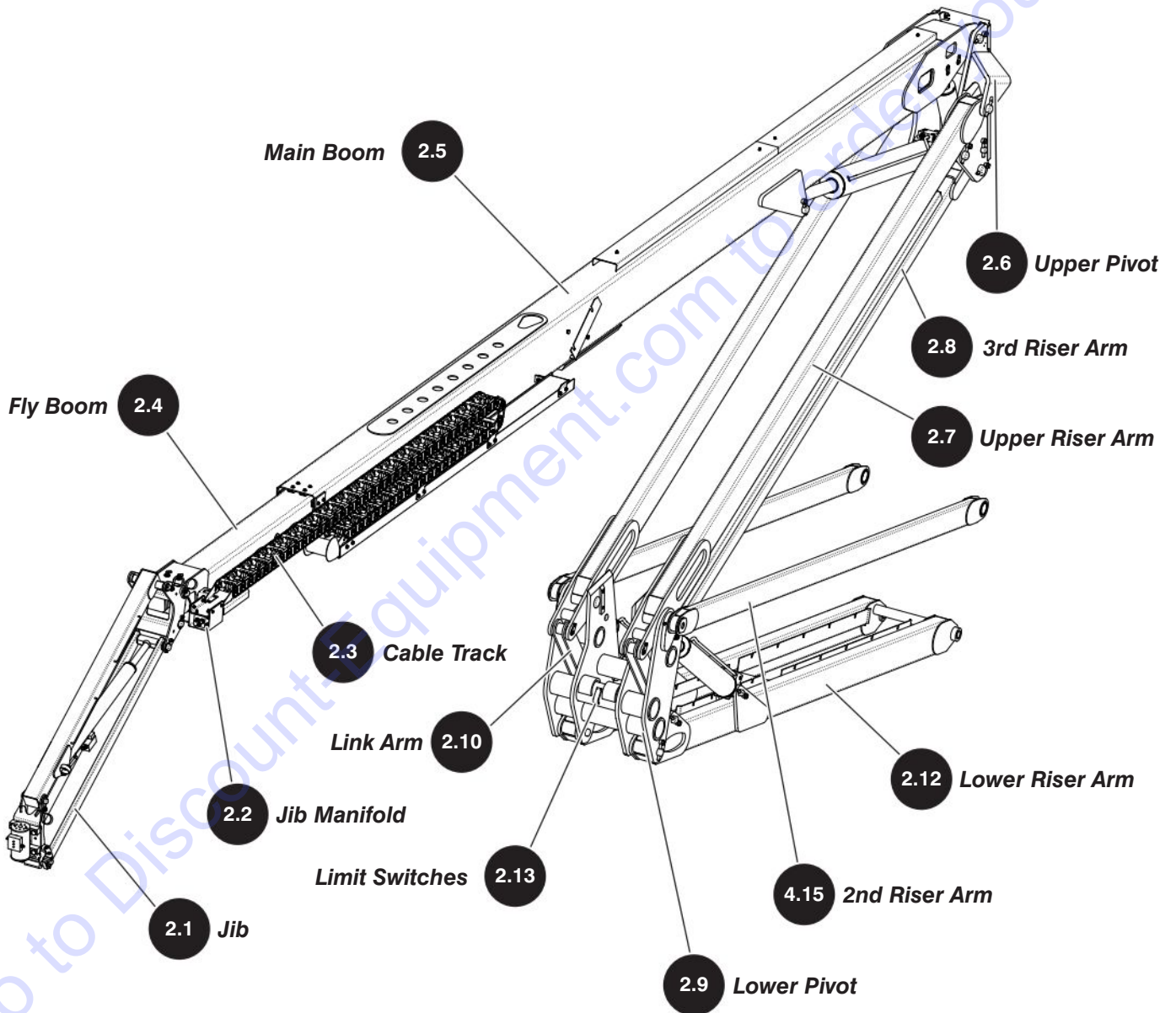
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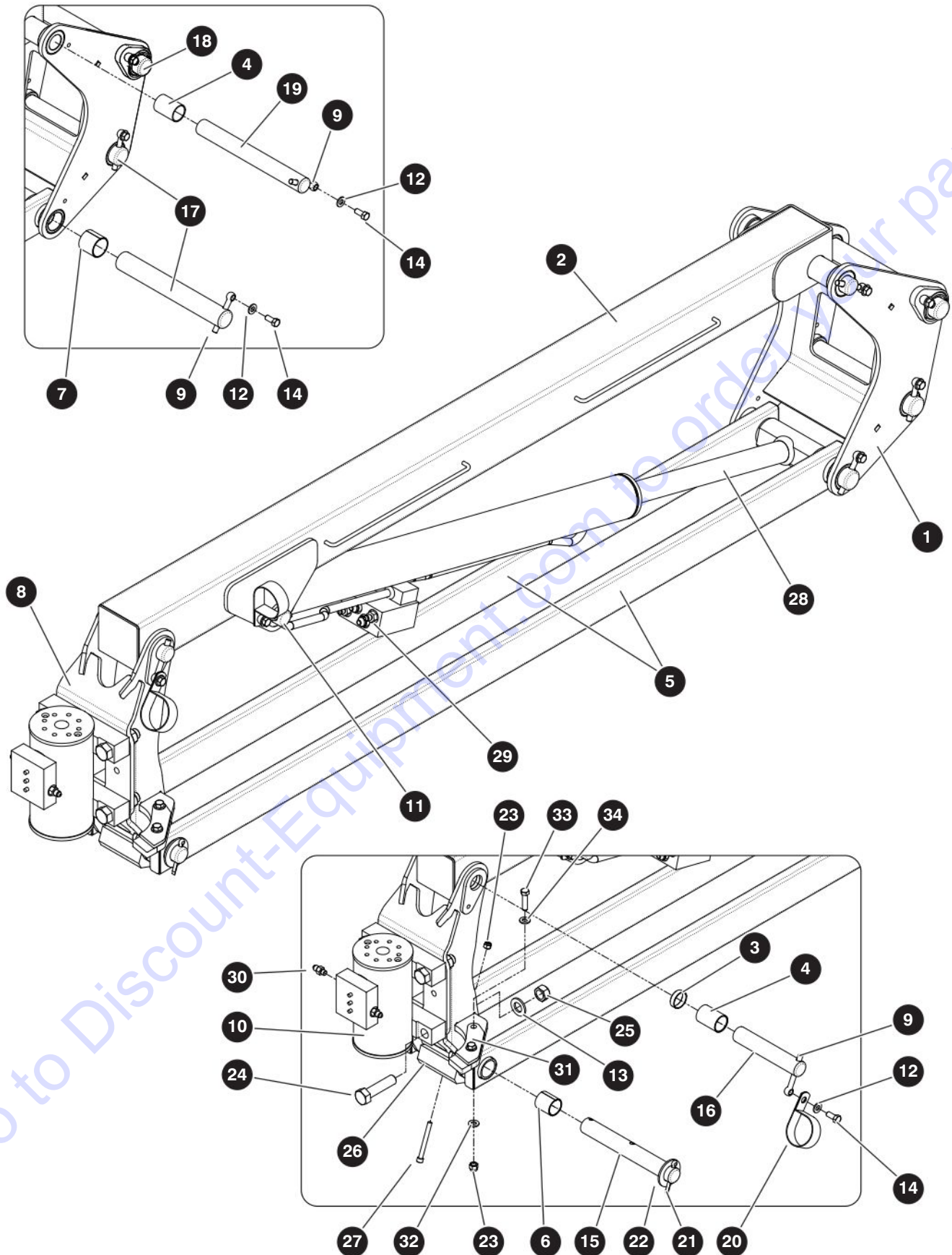
## 1.15 Power to Platform - Outlet and Plugs - CE

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	226505	1	POWER TO PLATFORM OUTLET - <b>UK with generator</b>
<b>B</b>	226507	1	POWER TO PLATFORM OUTLET - <b>UK no generator</b>
1	226503	1	<ul style="list-style-type: none"> <li>• RECEPTACLE, 16 amp 110 VAC 2P+E</li> </ul>
2	226501	1	<ul style="list-style-type: none"> <li>• PLUG, 16 amp 110 VAC 2P+E</li> </ul>
3	138373	1	<ul style="list-style-type: none"> <li>• STRAIN RELIEF, M20</li> </ul>
4	226502	1	<ul style="list-style-type: none"> <li>• RECEPTACLE, 16 amp 110 VAC 2P+E, <b>A</b></li> </ul>
5	228463	2	<ul style="list-style-type: none"> <li>• BOLT, Hex head (M3 x 0.5 x 10, cl 8.8)</li> </ul>
6	600579	2	<ul style="list-style-type: none"> <li>• WASHER, Flat (M4)</li> </ul>
7	217626	2	<ul style="list-style-type: none"> <li>• NUT, Hex head nylon lock (M3 x 0.5, cl 8)</li> </ul>
<b>C</b>	226509	1	POWER TO PLATFORM OUTLET - <b>Type F with generator</b>
<b>D</b>	226511	1	POWER TO PLATFORM OUTLET - <b>Type F no generator</b>
8	226454	1	<ul style="list-style-type: none"> <li>• OUTLET, Socket - 16 amp 250 V</li> </ul>
9	157192	1	<ul style="list-style-type: none"> <li>• PLUG, 250 V</li> </ul>
10	226504	1	<ul style="list-style-type: none"> <li>• RECEPTACLE, 250 V 16 amp, <b>C</b></li> </ul>
11	228459	2	<ul style="list-style-type: none"> <li>• BOLT, Hex head (M5 x 0.8 x 16, cl 10.9)</li> </ul>
12	933816	2	<ul style="list-style-type: none"> <li>• WASHER, Flat (M5)</li> </ul>
13	217628	2	<ul style="list-style-type: none"> <li>• NUT, Hex head nylon lock (M5 x 0.8, cl 8)</li> </ul>
<b>E</b>	226513	1	POWER TO PLATFORM OUTLET - <b>Type E with generator</b>
<b>F</b>	226515	1	POWER TO PLATFORM OUTLET - <b>Type E no generator</b>
14	226455	1	<ul style="list-style-type: none"> <li>• OUTLET, Socket - 16 amp 250 V</li> </ul>
15	157192	1	<ul style="list-style-type: none"> <li>• PLUG, 250 V</li> </ul>
16	226504	1	<ul style="list-style-type: none"> <li>• RECEPTACLE, 250 V 16 amp, <b>E</b></li> </ul>
17	228459	2	<ul style="list-style-type: none"> <li>• BOLT, Hex head (M5 x 0.8 x 16, cl 10.9)</li> </ul>
18	933816	2	<ul style="list-style-type: none"> <li>• WASHER, Flat (M5)</li> </ul>
19	217628	2	<ul style="list-style-type: none"> <li>• NUT, Hex head nylon lock (M5 x 0.8, cl 8)</li> </ul>
-	168656	1	CABLE, 220 V (not shown)

# Section 2 – Boom



## 2.1 Jib



M197943AD

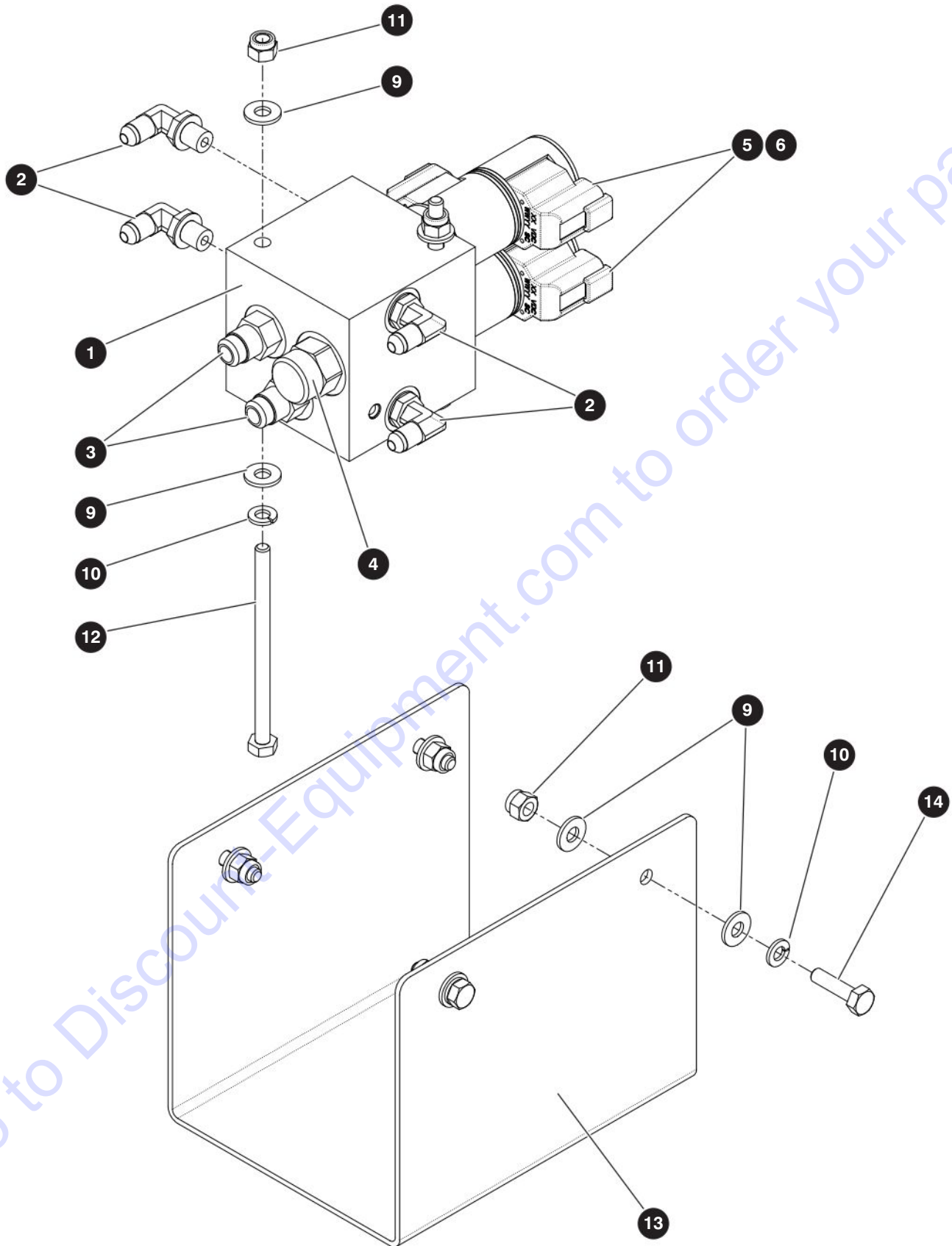
229037ADA

SJ85 AJ

## 2.1 Jib

Index No.	Skyjack Part No.	Qty.	Description
-	197943	1	JIB ASSEMBLY
1	197944	1	• BRACKET, Mounting
-	165252	1	• JIB ARM, Top
2	165263	1	• • WELDMENT, Top jib arm
3	154239	1	• • SPACER, (1.4" OD x 1.25" ID x 0.4" lg)
4	125230	6	• • BUSHING, Fiberglide (1-1/4" dia x 2" lg)
-	165253	2	• JIB ARM, Lower
5	165267	1	• • WELDMENT, Lower arm jib
6	125262	1	• • BUSHING, SJC 2024 (1.25" ID x 1.50" lg)
7	103216	1	• • BUSHING, Fiberglide (1.50" ID x 1.50" lg)
8	165254	1	• BRACKET, Mount - rotator
9	146897	6	• PIN, Keeper (0.375")
10	144710	1	• ROTARY ACTUATOR
	141399	2	• • VALVE, Counterbalance
	144709	1	• • SEAL KIT
11	154235	1	• PIN, Mounting - jib cylinder
12	125959	6	• WASHER, Flat (0.375" hard)
13	702194	4	• WASHER, Flat (0.75" hard high)
14	139193	6	• BOLT, Hex head patch (0.375"-16 x 0.875" gr 8)
15	154237	1	• PIN, Mounting - lower arm
16	162148	1	• PIN, Mounting - top arm
17	197497	2	• PIN (1.50" dia x 11.188" lg)
18	197496	1	• PIN (1.50" dia x 12.125" lg)
19	197950	1	• PIN (1.25" dia x 11.188" lg)
20	143987	2	• CLAMP, P (2.50" tube)
21	103972	2	• PIN, Cotter (0.25" x 2")
22	122502	2	• WASHER, Flat (1.125")
23	103984	1	• NUT, Lock (0.313"-18 gr 5)
24	103894	4	• BOLT, Hex head (0.75"-10 x 3.00" gr 8)
25	700575	4	• NUT, Torque lock (0.75"-10 gr C)
26	162144	1	• PAD, Jib
27	162145	1	• SCREW, Socket head cap (0.3125"-18 x 3.00")
28	165083	1	• CYLINDER, Jib (For components, refer to 3.1 Jib Cylinder)
29	701956	2	• FITTING, Straight (04JICM-06ORBM)
30	144474	2	• FITTING, Straight (04JICM-04ORBM x 0.028 port)
31	197935	1	• PLATE, Stopper
32	125959	4	• WASHER, Flat (0.375" hard)
33	103870	2	• BOLT, Hex head (0.375"-16" x 1.50" gr 5)
34	104606	2	• NUT, Lock (0.375"-16 gr 5)

## 2.2 Jib Manifold

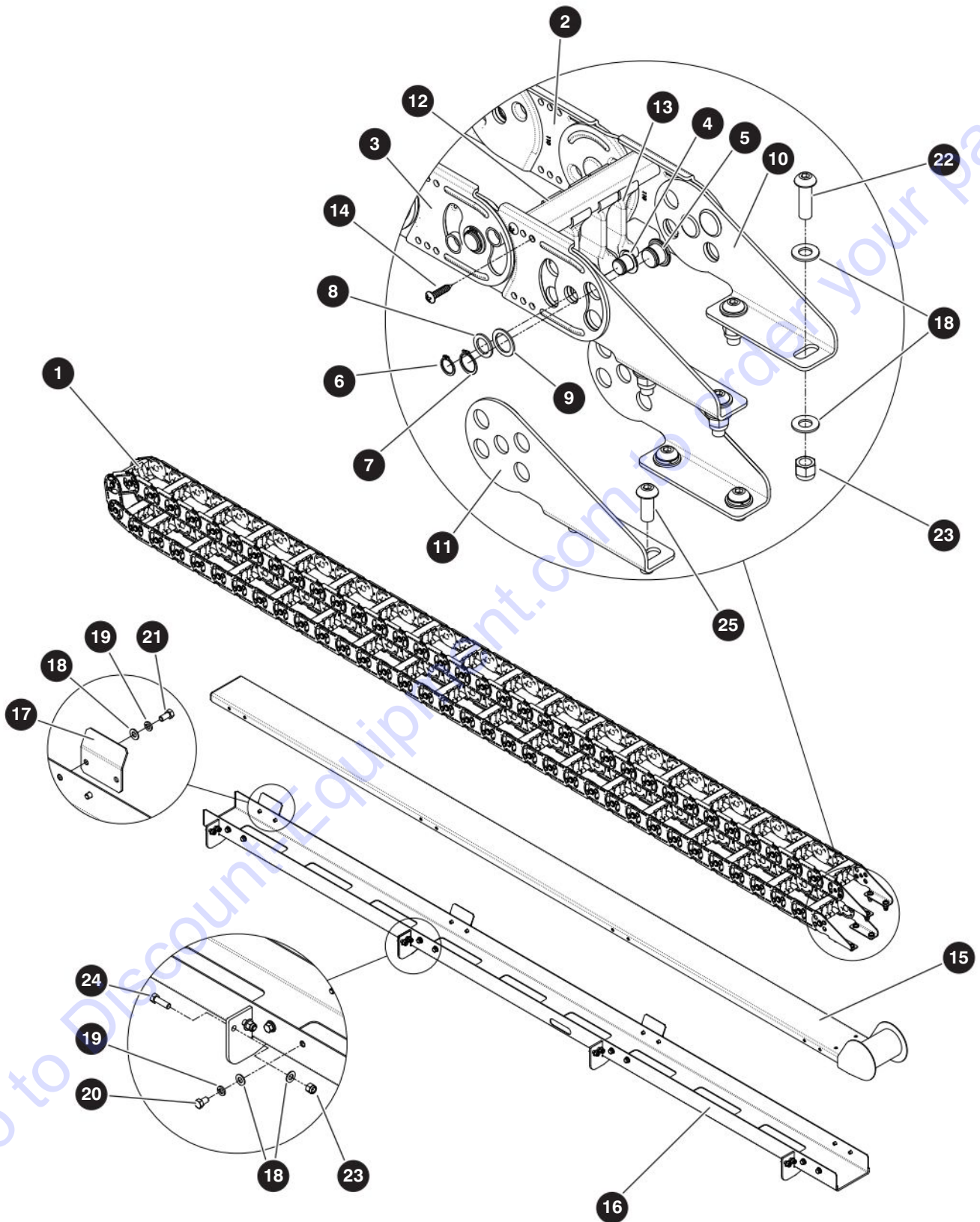


## 2.2 Jib Manifold

Index No.	Skyjack Part No.	Qty.	Description
-	197900	1	JIB MANIFOLD
-	198369	1	• MANIFOLD, Jib/platform rotate
1	211702	1	• • BLOCK, Manifold - Jib
2	125883	4	• • FITTING, 90° (04JICM-04ORBM)
3	701956	2	• • FITTING, Straight (04JICM-06ORBM)
4	166058	1	• • VALVE, Regulator - pressure-compensated
5	166041	2	• • VALVE, Spool - 4 way 3 position
6	208881	4	• • COIL, Solenoid - "ER" (12 VDC size 08)
7	104437	1	• • FITTING, Plug - hollow hex (06ORBM) (not shown)
8	121250	2	• • FITTING, Plug - hollow hex (04ORBM) (not shown)
9	103995	12	• WASHER, Flat (0.25")
10	104000	6	• WASHER, Lock (0.25")
11	115649	6	• NUT, Lock (0.25"-20 gr 5)
12	137616	2	• BOLT, Hex head (0.25"-20 x 3.75" gr 5)
13	197938	1	• COVER, Valve
15	103857	4	• BOLT, Hex head (0.25"-20 x 1.00" gr 5)



## 2.3 Cable Track



M197903AD

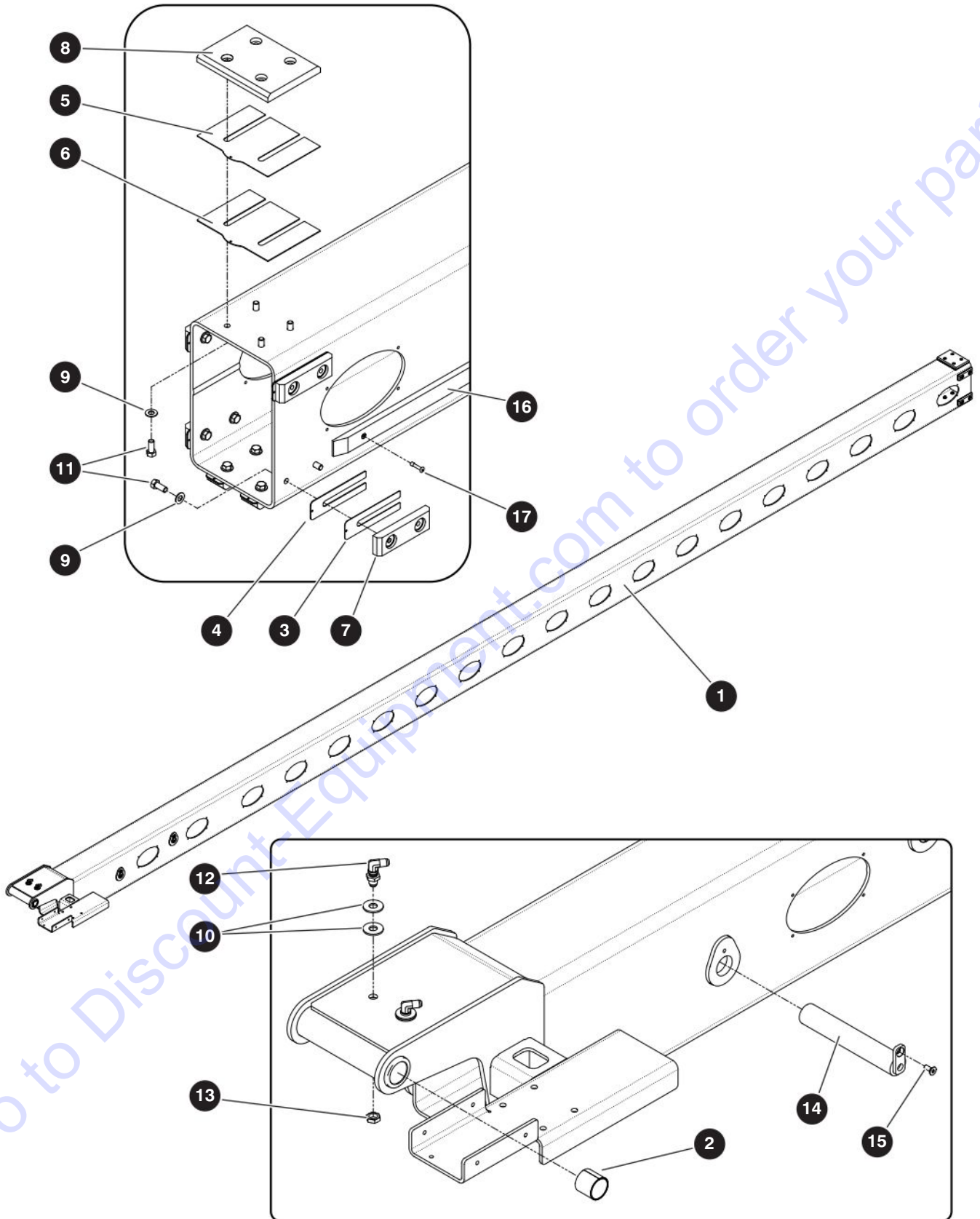
229037ADA

SJ85 AJ

## 2.3 Cable Track

Index No.	Skyjack Part No.	Qty.	Description
-	197903	1	CABLE TRACK ASSEMBLY
1	197934	1	• CABLE TRACK
2	212136	71	• • LINK, RH
3	212137	71	• • LINK, LH
4	212138	144	• • PIN, Center (0.75")
5	212139	2	• • PIN, End (0.875")
6	212140	144	• • RING, Snap - external (0.521" ID x 0.671" OD)
7	212141	2	• • RING, Snap - external (0.588" ID x 0.625" OD)
8	212142	144	• • WASHER, (0.055" x 0.563" ID x 1" OD)
9	212144	2	• • WASHER, (0.048" x 0.625" ID x 0.875" OD)
10	212145	2	• • BRACKET, RH
11	212146	2	• • BRACKET, LH
12	212147	72	• • BAR, Flat (5.00")
13	212153	108	• • SEPARATOR
14	212149	288	• • SCREW, Pan head (10-24 x 0.818")
15	198268	1	• SUPPORT, Upper
16	198263	1	• SUPPORT, Lower
17	198273	5	• GUIDE, Cable track
18	103472	36	• WASHER, Flat (0.375")
19	103999	20	• WASHER, Lock (0.375")
20	101632	6	• BOLT, Hex head (0.375"-16 X 0.75" gr 5)
21	300437	10	• BOLT, Hex head (0.375"-16 X 0.875" gr 5)
22	122257	4	• BOLT, Button head cap screw (0.375"-16 x 1.25")
23	104606	12	• NUT, Lock (0.375"-16 gr 5 nylon)
24	101297	8	• BOLT, Hex head (0.375"-16 X 1.25" gr 5)
25	170182	4	• BOLT, Button head cap screw (0.375"-16 x 0.75")

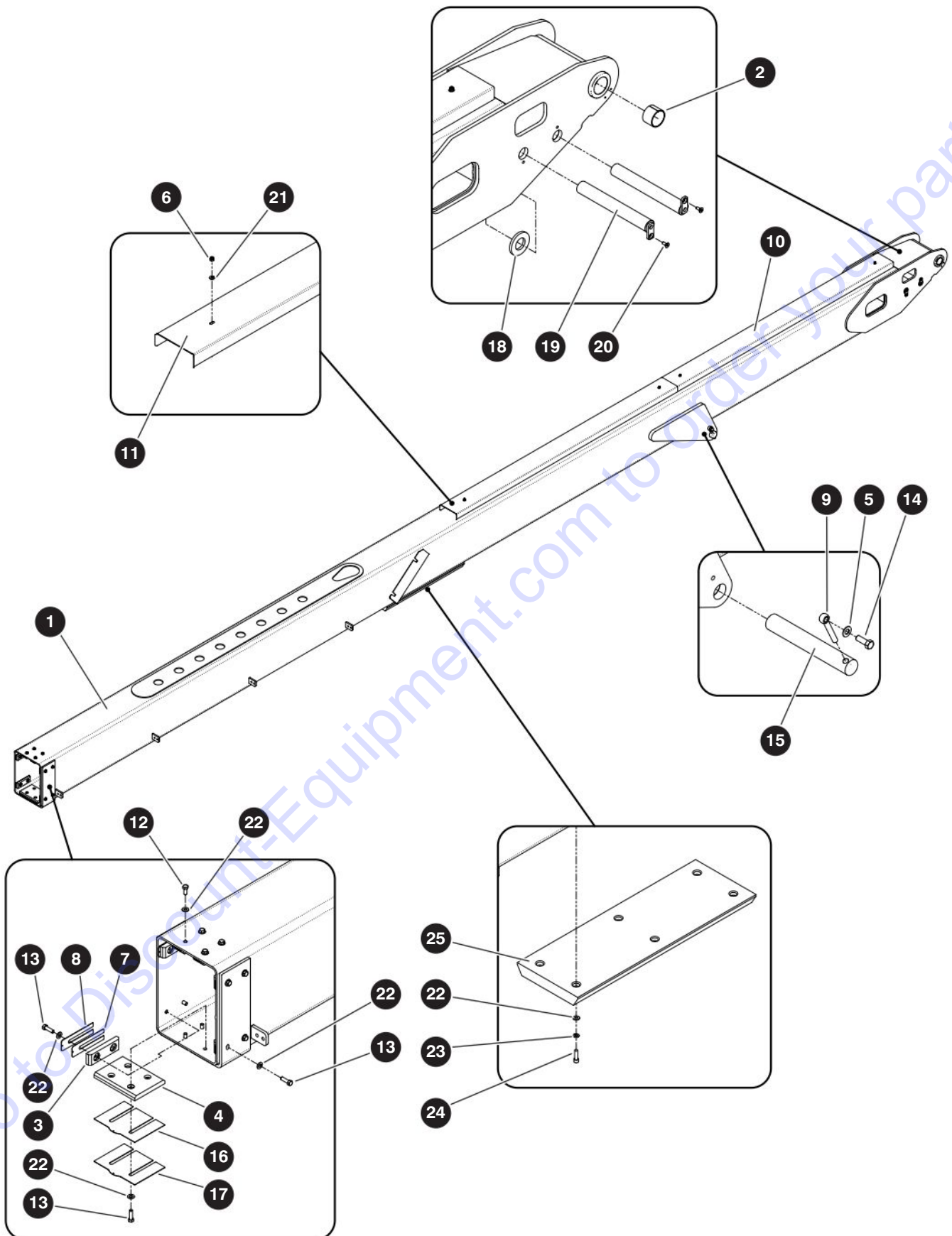
## 2.4 Fly Boom



## 2.4 Fly Boom

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	197902	1	FLY BOOM - <b>Standard</b>
<b>B</b>	212861	1	FLY BOOM - <b>Hostile Environment Option</b>
1	197921	1	• BOOM, Fly, <b>A</b>
	212862	1	• BOOM, Fly, <b>B</b>
2	103216	2	• BUSHING, Fiberglide (1.5" ID x 1.5" lg)
3	148837	6	• SHIM, 16 gauge (1.50" x 5.25")
4	148838	6	• SHIM, 20 gauge (1.50" x 5.25")
5	197894	1	• SHIM, 16 gauge (6.50" x 5.00")
6	197893	1	• SHIM, 20 gauge (6.50" x 5.00")
7	148828	6	• PAD, Wear (5.00" x 1.50" x .625")
8	197891	1	• PAD, Wear
9	103472	16	• WASHER, Flat (0.375 SAE")
10	137241	4	• WASHER, Flat (0.50" AA)
11	300437	16	• BOLT, Hex head (0.375"-16 x 0.875" gr 5)
12	138986	2	• FITTING, 90° bulkhead (06JICM-06JICM)
13	139157	2	• FITTING, Nut bulkhead (06JIC)
14	197884	2	• PIN (1.50" dia x 8.75" lg)
15	704642	2	• SCREW, Flat head cap (0.312"-18 x 0.75" gr 5)
16	171195	2	• RAMP, Limit switch
17	197500	14	• RIVET, Pop (0.1875 dia x 0.44" lg)

## 2.5 Main Boom



M197901AC

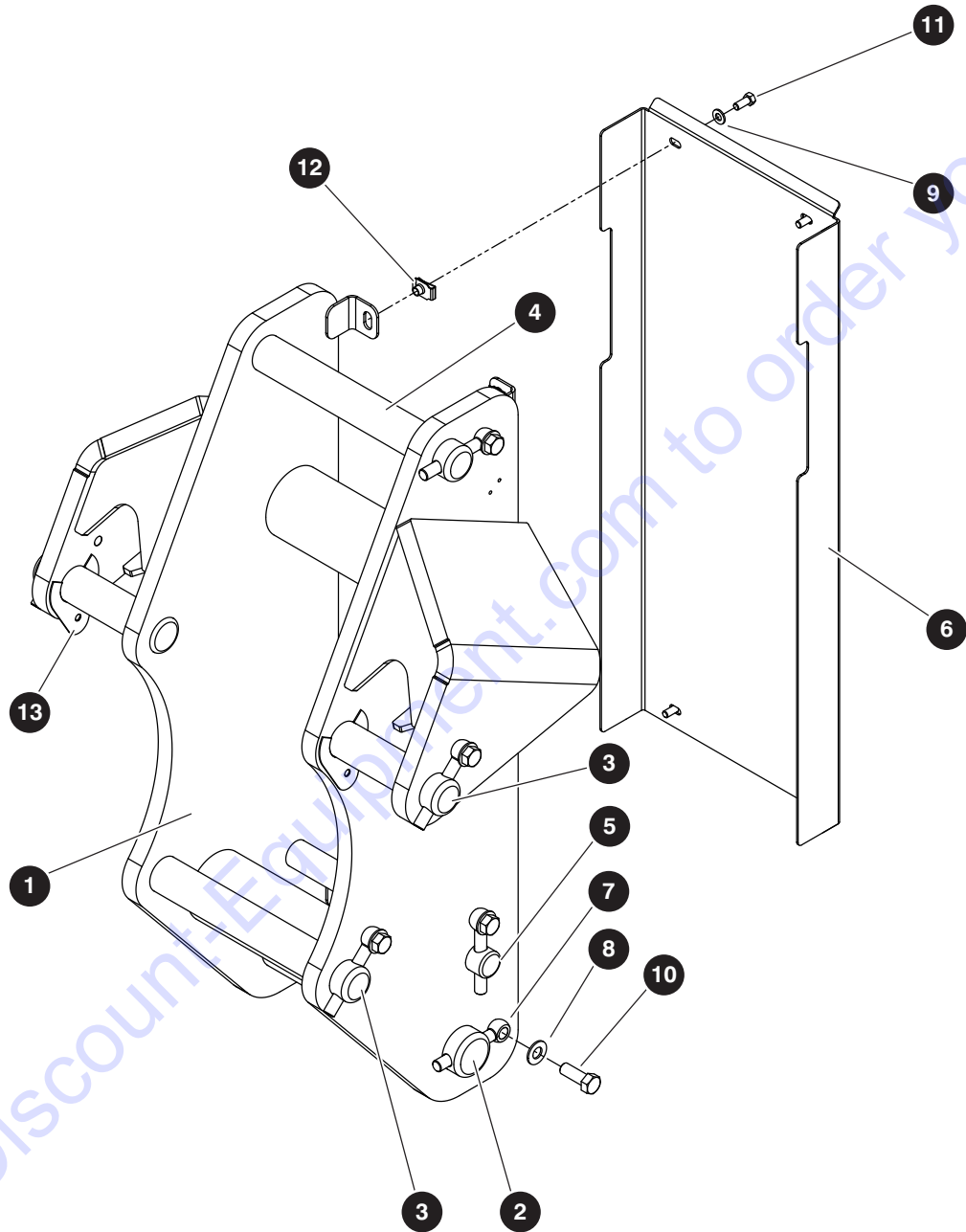
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## 2.5 Main Boom

Index No.	Skyjack Part No.	Qty.	Description
-	197901	1	MAIN BOOM
1	197909	1	• MAIN BOOM
2	153844	2	• BEARING, CJS 3224 (2.0" ID x 1.5" lg)
3	148828	6	• PAD, Wear (5.00" x 1.50" x 0.625")
4	197891	1	• PAD, Wear
5	700782	1	• WASHER, Flat (0.625" hard high)
6	115649	4	• NUT, Lock (0.25"-20 gr 5)
7	148837	6	• SHIM, 16 gauge (1.50" x 5.25")
8	148838	6	• SHIM, 20 gauge (1.50" x 5.25")
9	146898	1	• PIN, Keeper (0.625")
10	197882	1	• COVER, Rear
11	197883	1	• COVER, Front
12	300437	4	• BOLT, Hex head (0.375"-16 x 0.875" gr 5)
13	101297	12	• BOLT, Hex head (0.375"-16 x 1.25" gr 5)
14	148944	1	• BOLT, Hex head patch (0.625"-11 x 1.75" gr 8)
15	197501	1	• PIN (2.00" dia x 13.50" lg)
16	197894	1	• SHIM, 16 gauge (6.75" x 5.00")
17	197893	1	• SHIM, 20 gauge (6.75" x 5.00")
18	159852	2	• PLATE, Spacer
19	197879	2	• PIN (1.50" dia x 11.625" lg)
20	704642	2	• SCREW, Flat head cap (0.312"-18 x 0.75" gr 5)
21	103995	4	• WASHER, Flat (0.25")
22	103472	22	• WASHER, Flat (0.375")
23	103999	6	• WASHER, Lock (0.375")
24	192999	6	• SCREW, Socket head cap (0.375"-16 x 1.25")
25	211537	1	• PAD, Bumper



## 2.6 Upper Pivot



# PARTS FINDER

**Search Website  
by Part Number**



**Search Manual  
Library For Parts  
Manual & Lookup Part  
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or Request Quote**

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Enter your information to help us find the right parts manual for your machine.

\* Brand:

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Please fill in the following information to help us find the right part for your machine.

Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Description:	<input type="text"/>
Part Number:	<input type="text"/>
Quantity:	<input type="text"/>
Notes:	<input type="text"/>

Discount-Equipment.com is your online resource for quality parts & equipment.

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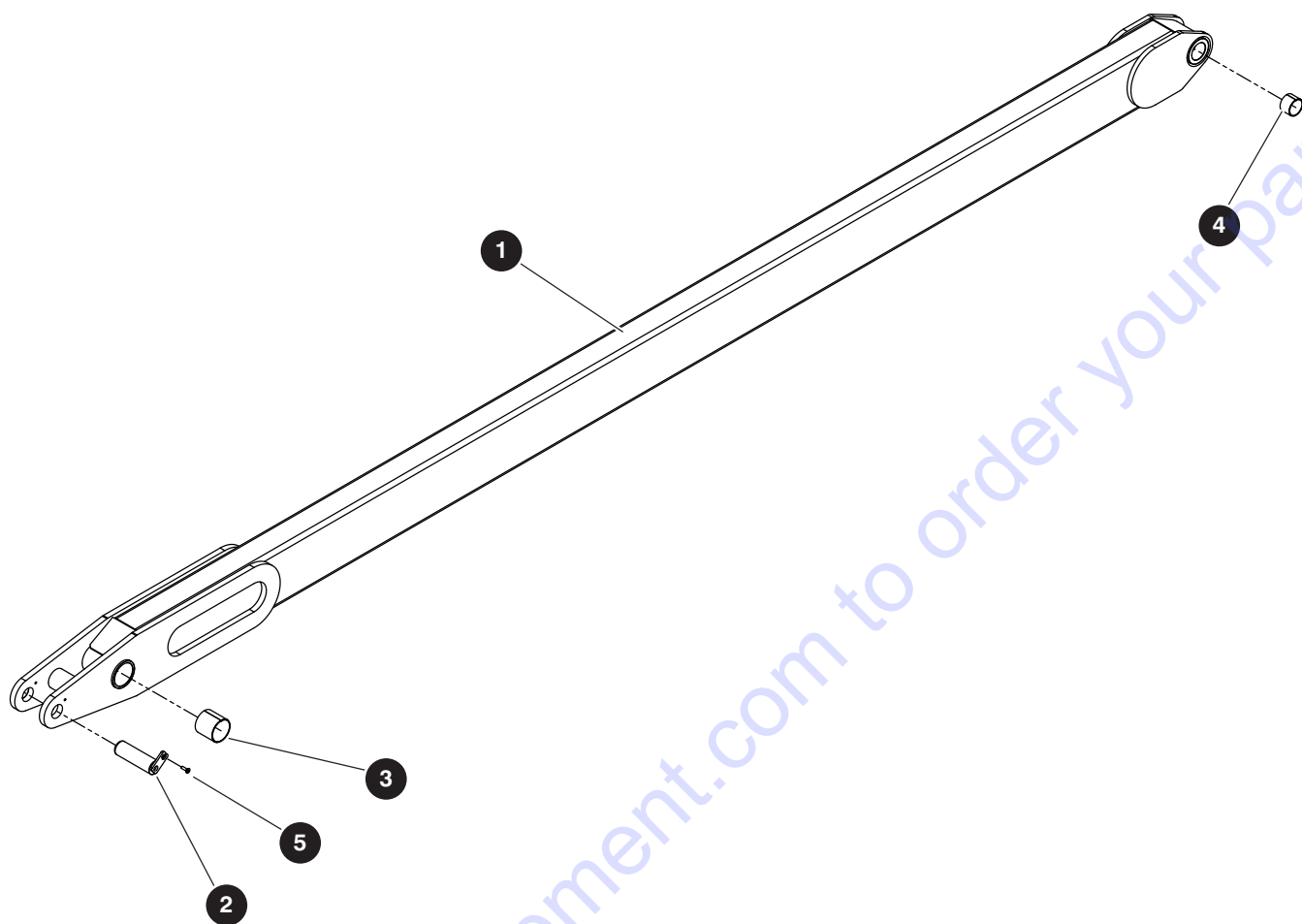
Click on this link: <http://www.discount-equipment.com/category/5443-parts/> and choose one of the options to help get the right parts and equipment you are looking for. Please have the machine model and serial number available in order to help us get you the correct parts. If you don't find the part on the website or on one of the online manuals, please fill out the request form and one of our experienced staff members will get back to you with a quote for the right part that your machine needs.

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment, Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep, Small Line, Wanco, Yanmar

## 2.6 Upper Pivot

Index No.	Skyjack Part No.	Qty.	Description
-	197807	1	UPPER PIVOT
1	197863	1	• PIVOT, Upper
2	197873	1	• PIN (2.50" dia x 15.50" lg)
3	197874	2	• PIN (2.00" dia x 8.75" lg)
4	197875	2	• PIN (2.00" dia x 15.50" lg)
5	197876	1	• PIN (1.50" dia x 15.50" lg)
6	212865	1	• PLATE, Cover
7	146898	6	• PIN, Keeper (0.625")
8	700782	6	• WASHER, Flat (0.625" hard high)
9	125959	4	• WASHER, Flat (0.375" SAE hard)
10	148944	6	• BOLT, Hex head patch (0.625"-11 x 1.75" gr 8)
11	139193	4	• BOLT, Hex head patch (0.375"-16 x 0.875" gr 8)
12	159294	4	• NUT, Speed clip (0.375"-16)
13	212518	4	• CLIP, Plastic

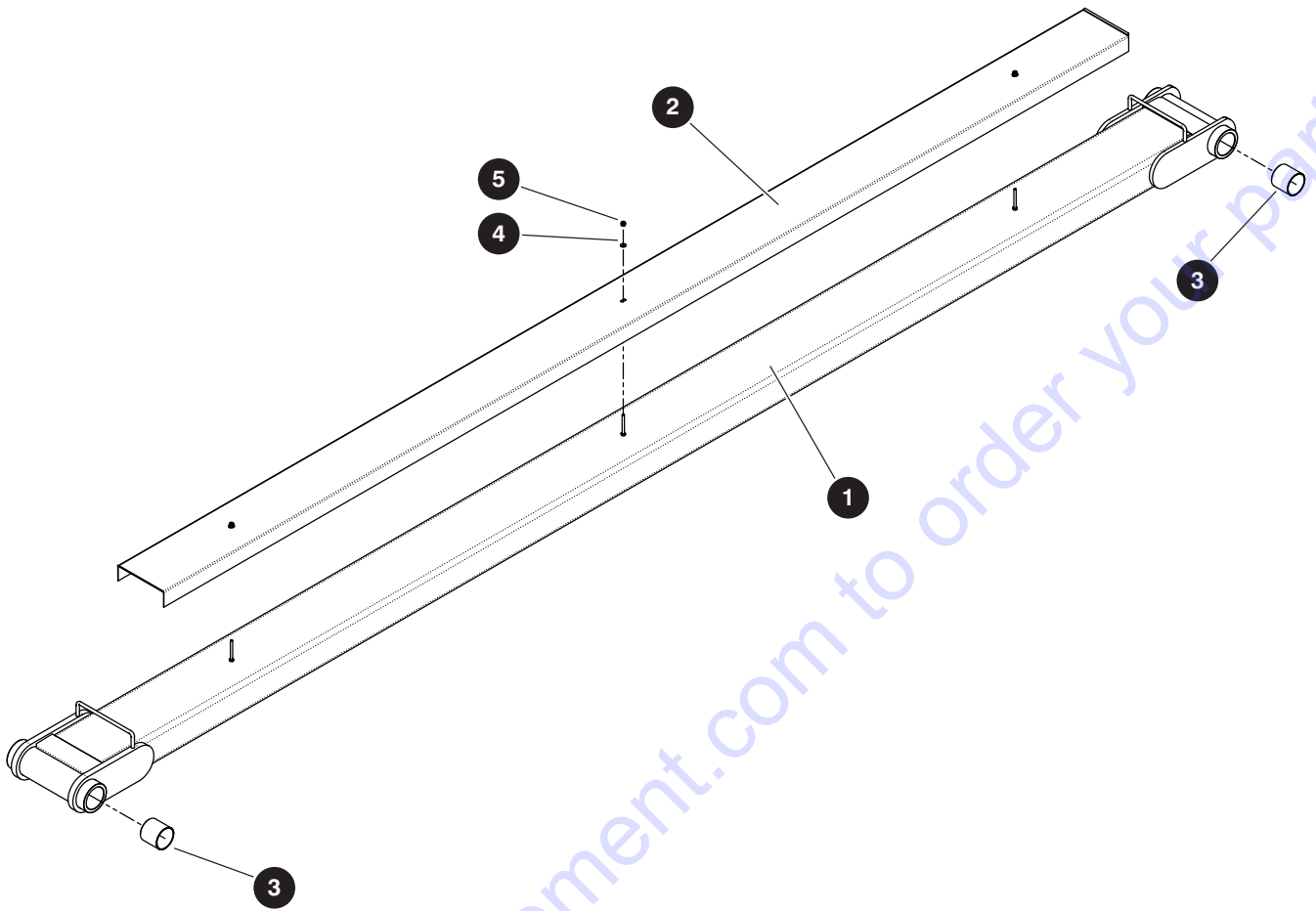
## 2.7 Upper Riser Arm



M197804AB

Index No.	Skyjack Part No.	Qty.	Description
-	197804	2	UPPER RISER ARM
1	197836	1	• ARM, Upper riser
2	197844	1	• PIN (1.75" dia x 5.75" lg)
3	197829	2	• BUSHING, CJS 4444 (2.75" ID x 2.75" lg)
4	153844	2	• BUSHING, CJS 3224 (2.0" ID x 1.5" lg)
5	162116	1	• SCREW, Flat head cap (0.312"-18 x 1.00" gr 5)

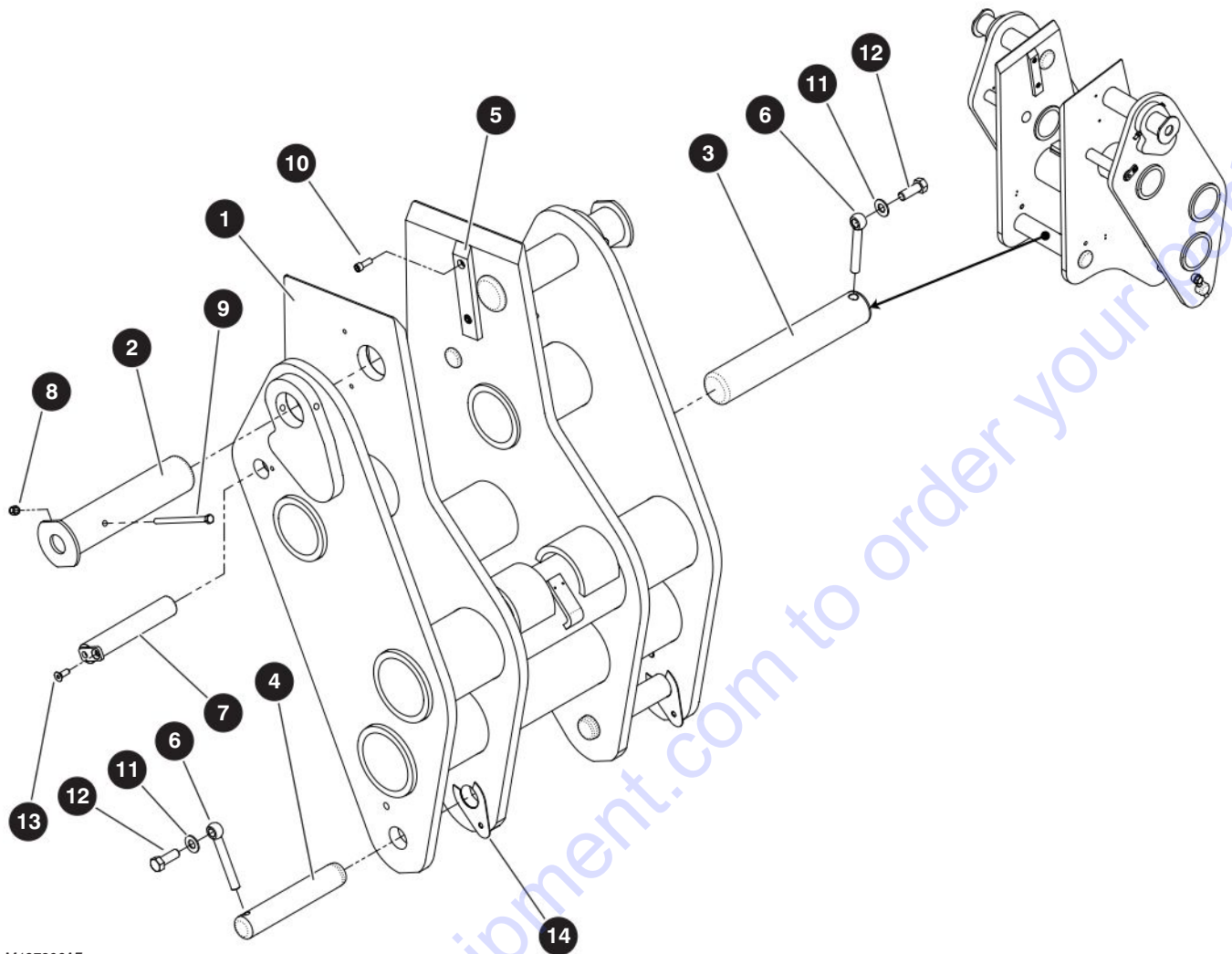
## 2.8 3rd Riser Arm



M197803AC

Index No.	Skyjack Part No.	Qty.	Description
-	197803	1	3RD RISER ARM
1	197830	1	• ARM, 3rd riser
2	197835	1	• COVER
3	147461	4	• BUSHING, Fiberglide (2.5" ID x 2.6875" OD x 2.5" lg)
4	103995	3	• WASHER, Flat (0.25")
5	115649	3	• NUT, Lock (0.25"-20 gr 5 nylon)

## 2.9 Lower Pivot

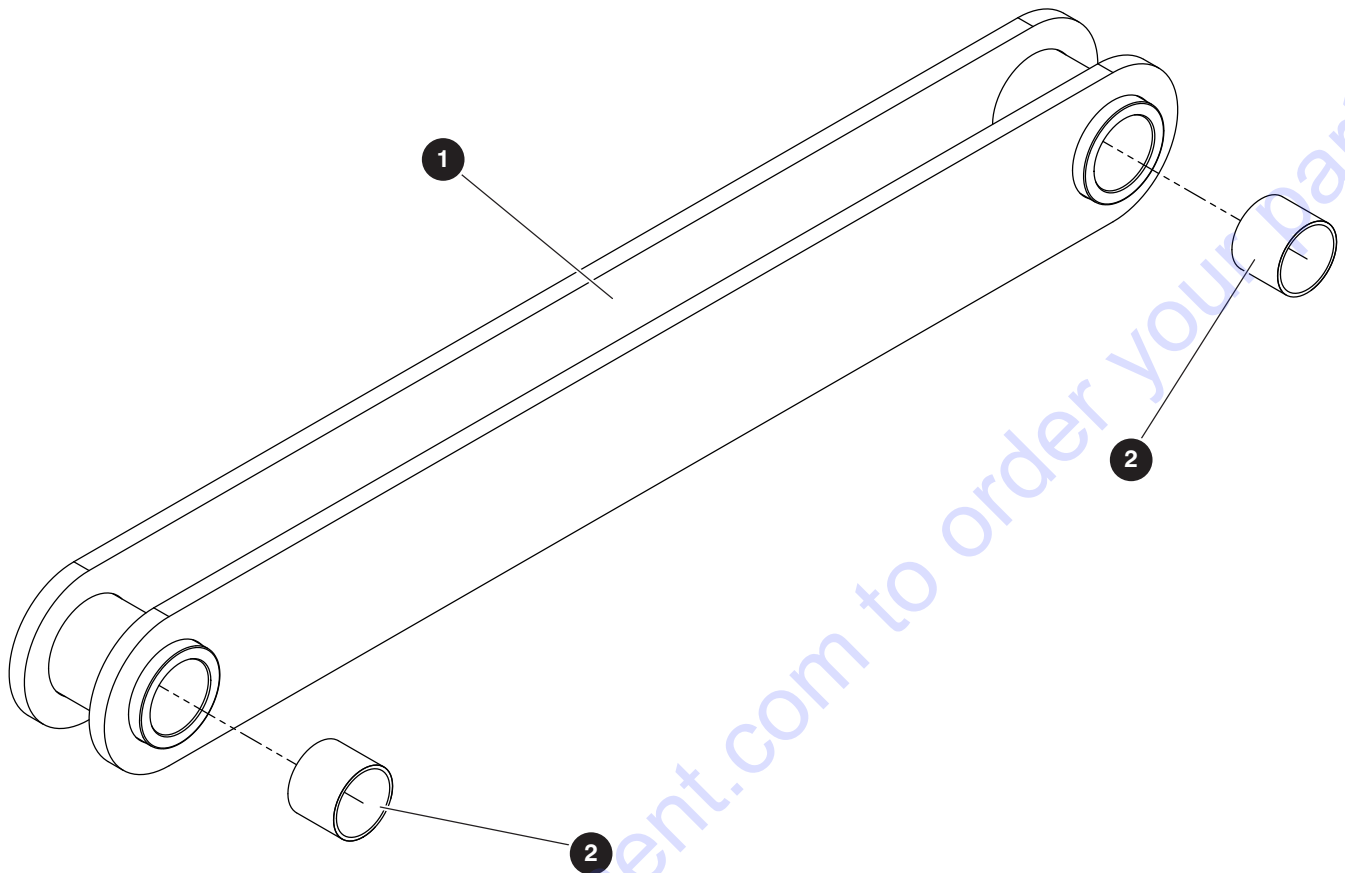


M197806AE

Index No.	Skyjack Part No.	Qty.	Description
-	197806	1	LOWER PIVOT
1	197850	1	• PIVOT, Lower
2	197859	2	• PIN (2.75" dia x 12.313" lg)
3	197862	1	• PIN (2.50" dia x 14.625" lg)
4	153690	2	• PIN (1.75" dia x 10.688" lg)
5	153937	2	• PAD, Bumper (7.5" x 1.5" x 0.5")
6	146898	3	• PIN, Keeper (0.625")
7	198238	2	• PIN (1.50" dia x 8.375" lg)
8	104606	2	• NUT, Lock (0.375"-16 gr 5 nylon)
9	138736	2	• BOLT, Hex head (0.375"-16 x 6.00" gr 5)
10	103949	4	• SCREW, Socket head cap (0.375"-16 x 1.00")
11	700782	3	• WASHER, Flat (0.625" hard high)
12	148944	3	• BOLT, Hex head patch (0.625"-11 x 1.75" gr 8)
13	153305	2	• SCREW, Flat head cap (0.375"-16 x 1.00" gr 5)
14	212519	4	• CLIP, Plastic



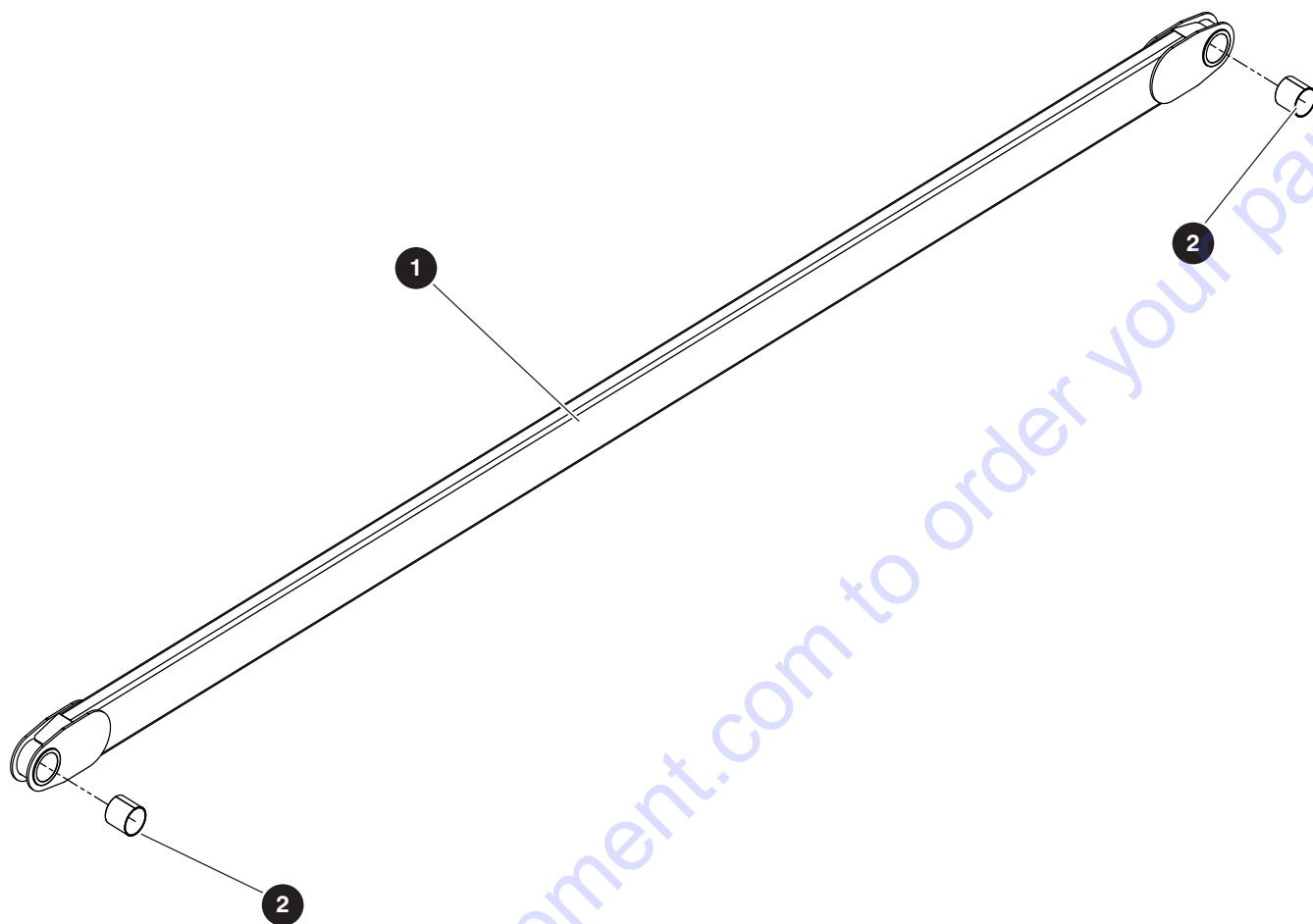
## 2.10 Link Arm



M197805AB

Index No.	Skyjack Part No.	Qty.	Description
-	197805	2	LINK ARM
1	197847	1	• ARM, Link
2	101564	4	• BEARING, Plain (1.75" ID x 1.938" OD x 1.50" lg)

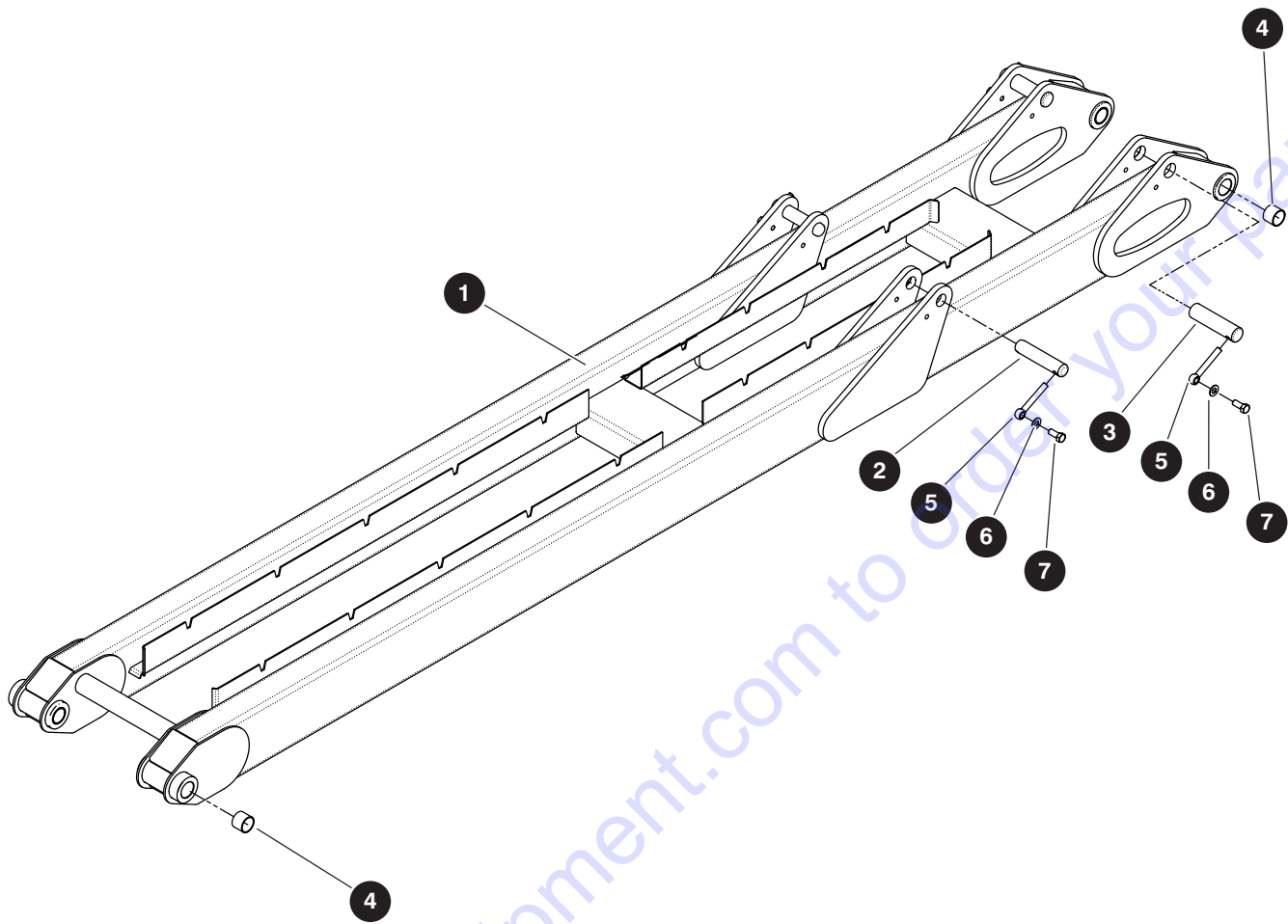
## 2.11 2nd Riser Arm



M197802AB

Index No.	Skyjack Part No.	Qty.	Description
-	197802	2	2ND RISER ARM
1	197824	1	• ARM, 2nd riser
2	197829	2	• BUSHING, CJS 4444 (2.75" ID x 2.75" lg)

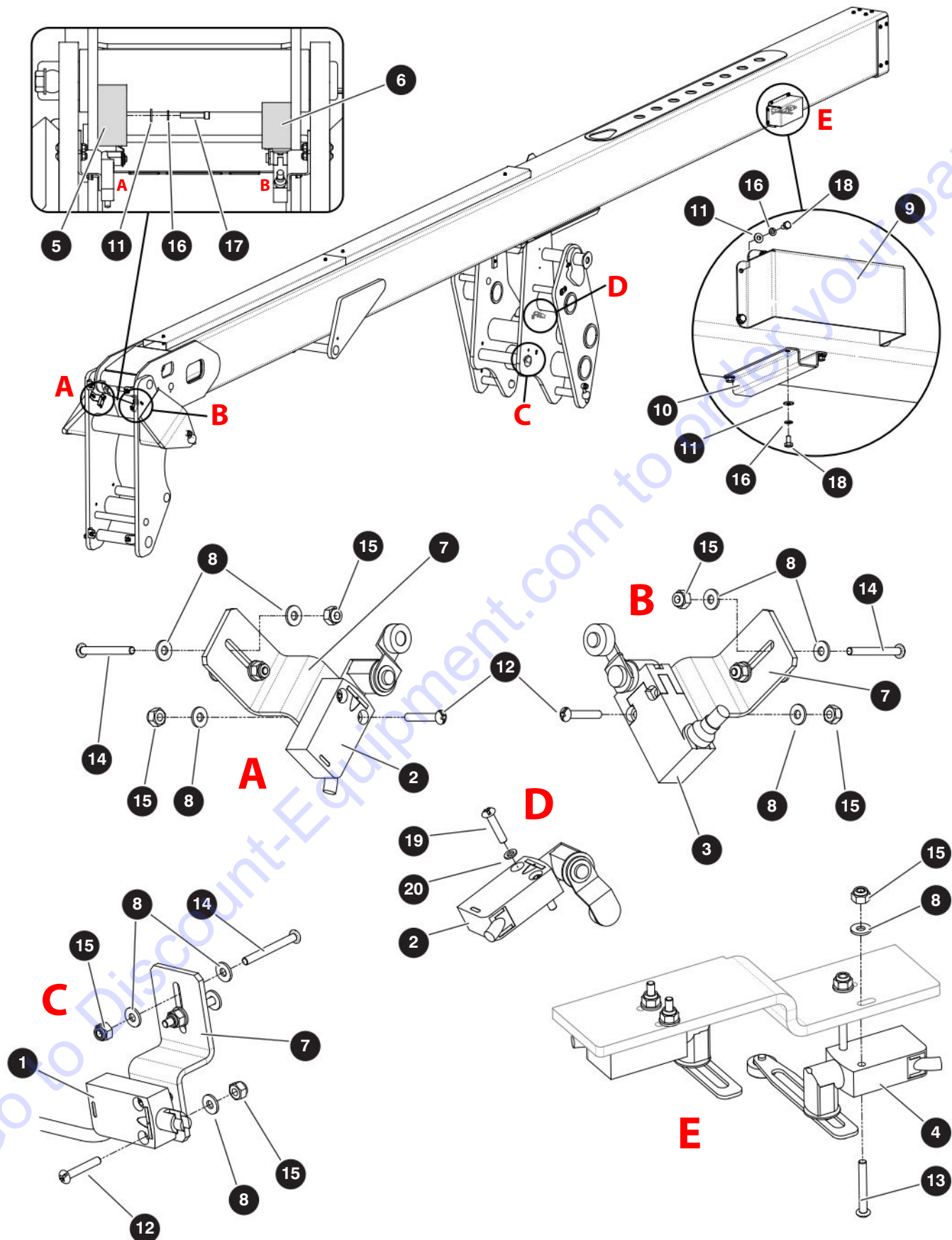
## 2.12 Lower Riser Arm



M97801AC

Index No.	Skyjack Part No.	Qty.	Description
-	197801	1	LOWER RISER ARM
1	197810	1	• ARM, Lower riser
2	197822	2	• PIN (1.500" dia x 7.125" lg)
3	197823	2	• PIN (1.750" dia x 6.875" lg)
4	101564	8	• BEARING, Plain (1.750" ID x 1.938" OD x 1.500" lg)
5	146898	4	• PIN, Keeper (0.625")
6	700782	4	• WASHER, Flat (0.625" hard high)
7	162045	4	• BOLT, Hex head patch (0.62"-11 x 1.50" gr 8)

## 2.13 Limit Switches



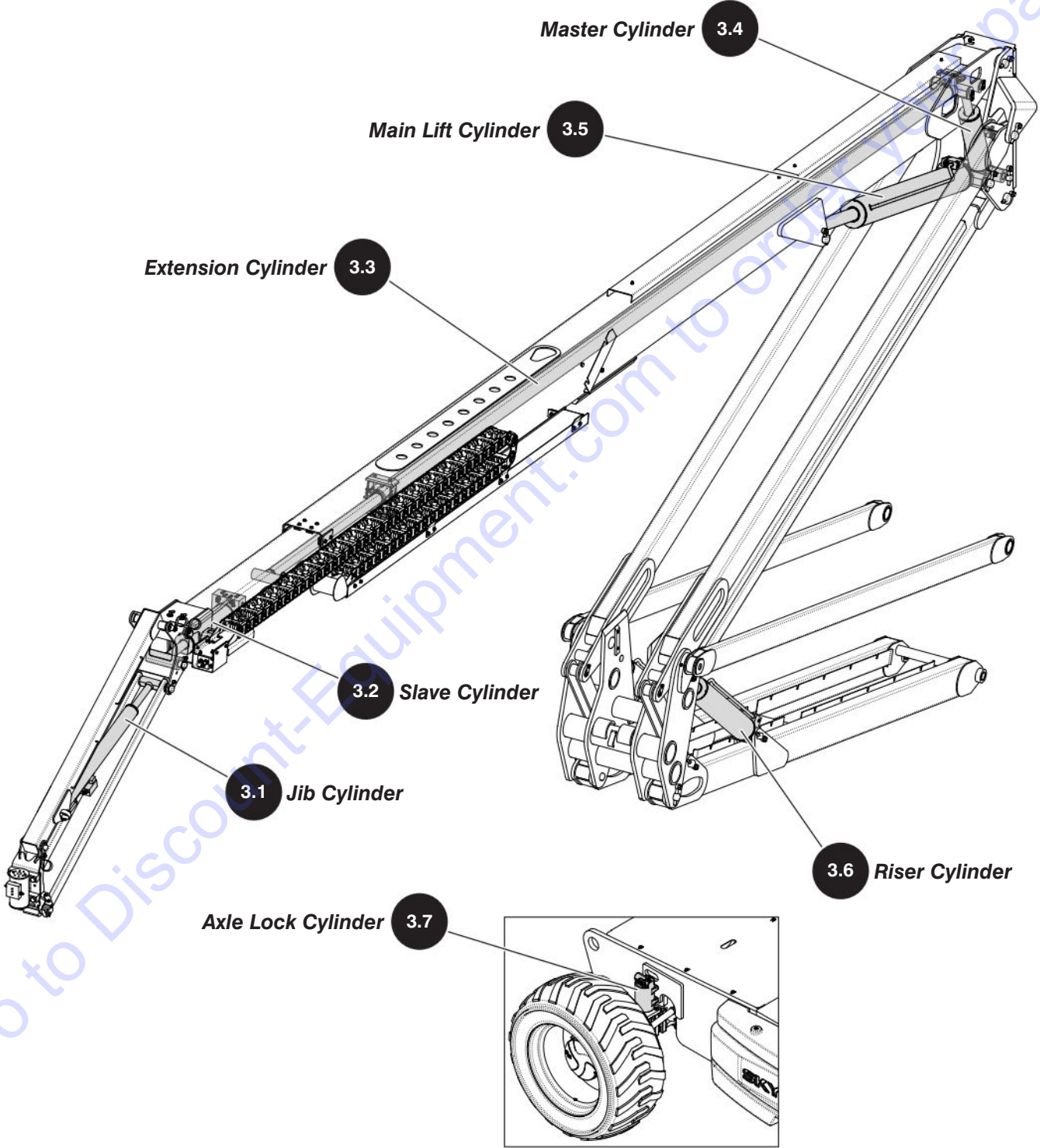
M197809AC

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## 2.13 Limit Switches

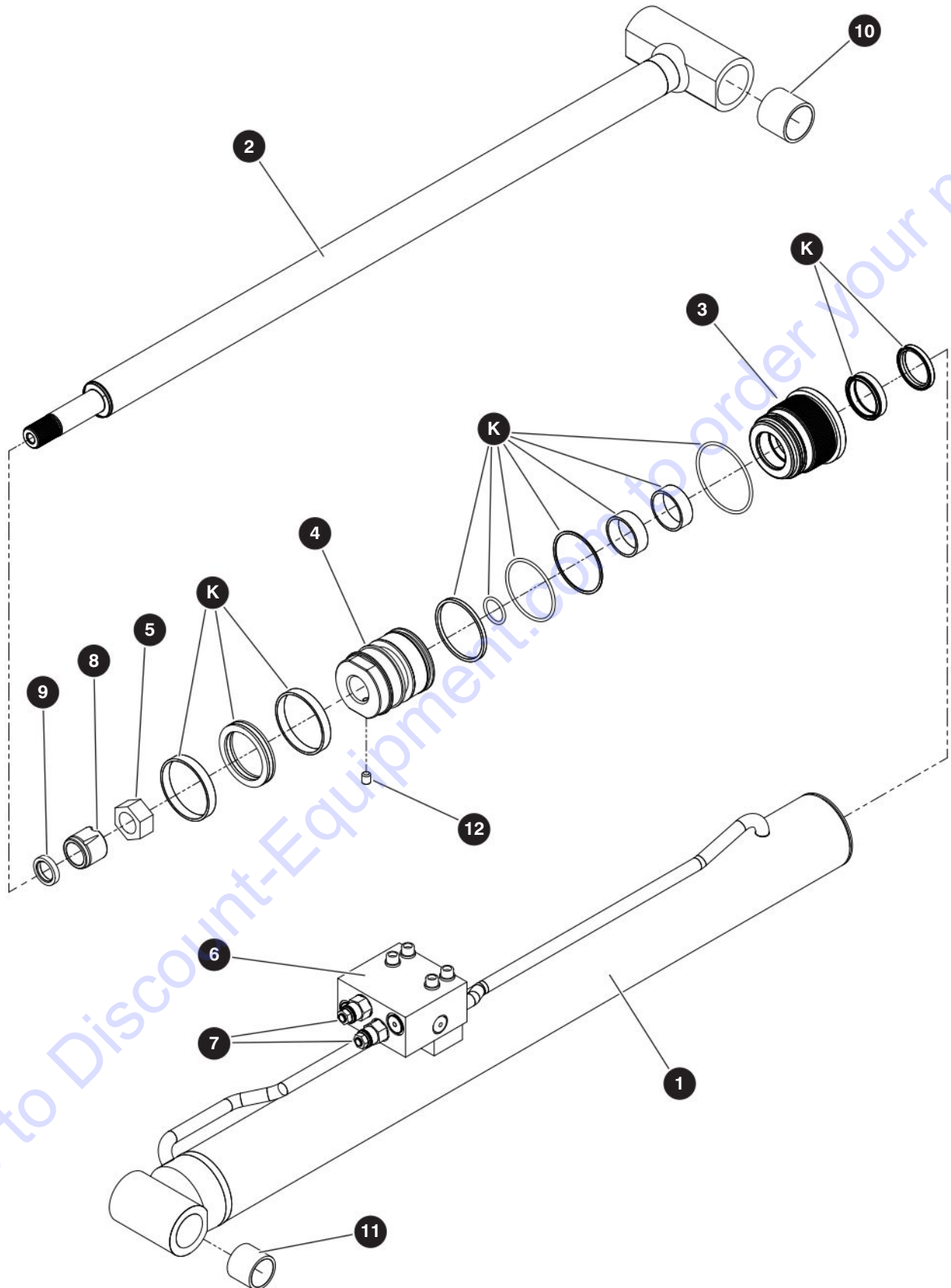
Index No.	Skyjack Part No.	Qty.	Description
-	197809	1	LIMIT SWITCH ASSEMBLIES
1	207017	1	• LIMIT SWITCH, Roller plunger - 12 m
2	207059	2	• LIMIT SWITCH, Roller lever - 17 m
3	216008	1	• LIMIT SWITCH, Roller lever - 15 m
4	198390	2	• LIMIT SWITCH, Adjustable lever - 25 m
5	197502	1	• CAM
6	197503	1	• CAM
7	197504	3	• BRACKET
8	103991	22	• WASHER, Flat (#8)
9	197498	1	• COVER, Limit switch
10	197499	1	• COVER, Cable
11	103995	14	• WASHER, Flat (0.25")
12	112248	6	• SCREW, Round head machine (8-32 x 1.00")
13	152294	4	• SCREW, Round head machine (8-32 x 1.25")
14	111579	6	• SCREW, Round head machine (8-32 x 1.50")
15	138765	16	• NUT, Lock (8-32 gr 5)
16	104000	14	• WASHER, Lock (0.25")
17	103940	4	• SCREW, Socket head cap (0.25"-20 x 1.25")
18	103855	10	• BOLT, Hex head (0.25"-20 x 0.50" gr 5)
19	103958	2	• SCREW, Round head machine (8-32 x 0.75")
20	112249	2	• WASHER, Lock (#8)

# Section 3 – Cylinders





### 3.1 Jib Cylinder



M165083AE

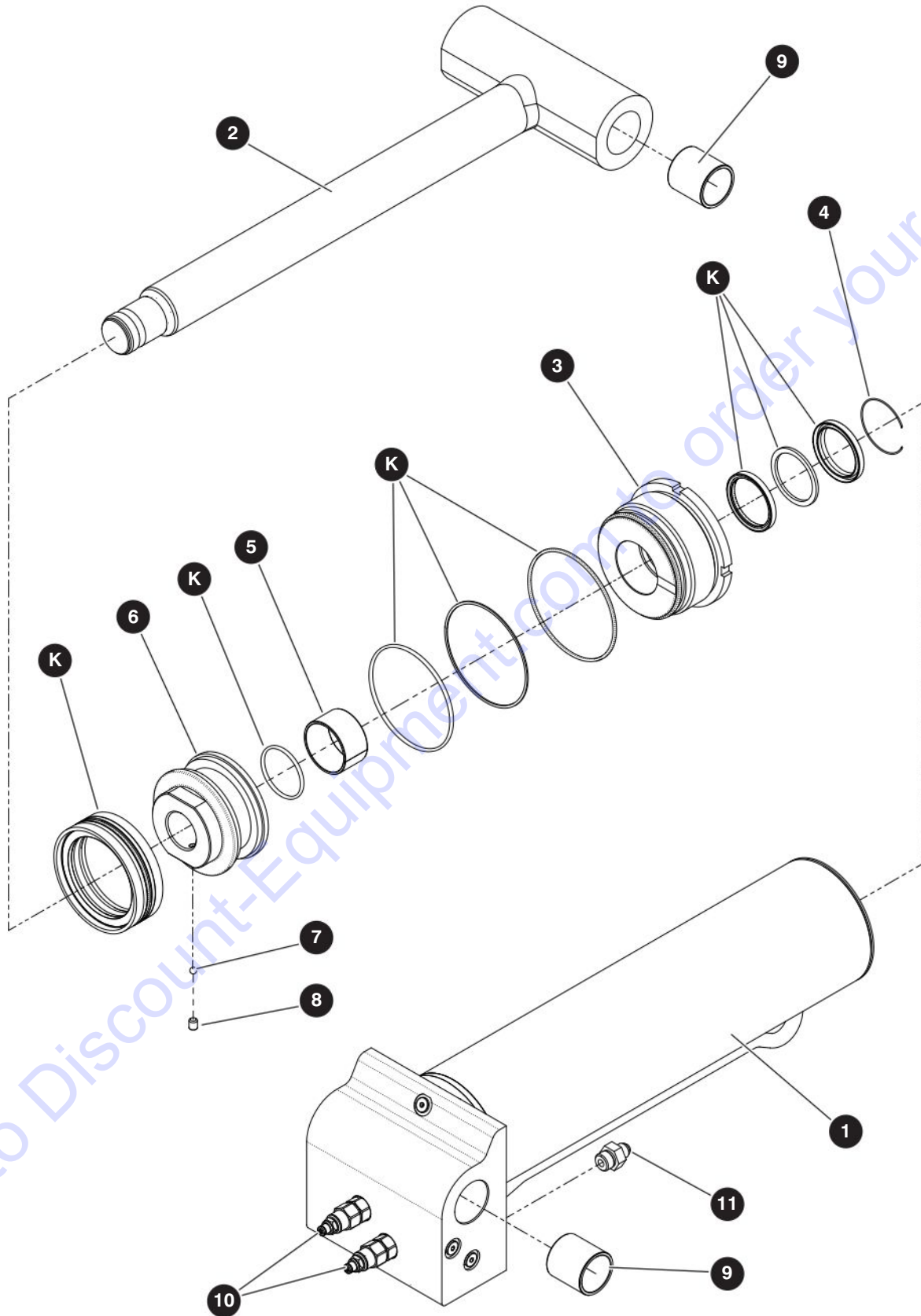
229037ADA

SJ85 AJ

### 3.1 Jib Cylinder

Index No.	Skyjack Part No.	Qty.	Description
-	216057	1	JIB CYLINDER
1	220560	1	• TUBE
2	220561	1	• ROD
3	220562	1	• GLAND
4	220563	1	• PISTON
5	220567	1	• NUT, Lock
6	220566	1	• BLOCK, Manifold - jib cylinder
7	216059	2	• VALVE, Counterbalance
8	220564	1	• RING, Cushion
9	220565	1	• GUIDE, Cushion
10	212691	2	• BUSHING, (1.50" dia x 1.50" lg)
11	220568	2	• BUSHING, (1.25" dia x 1.25" lg)
12	220570	1	• SCREW, Set
K	220569	1	SEAL KIT, Jib Cylinder

## 3.2 Slave Cylinder



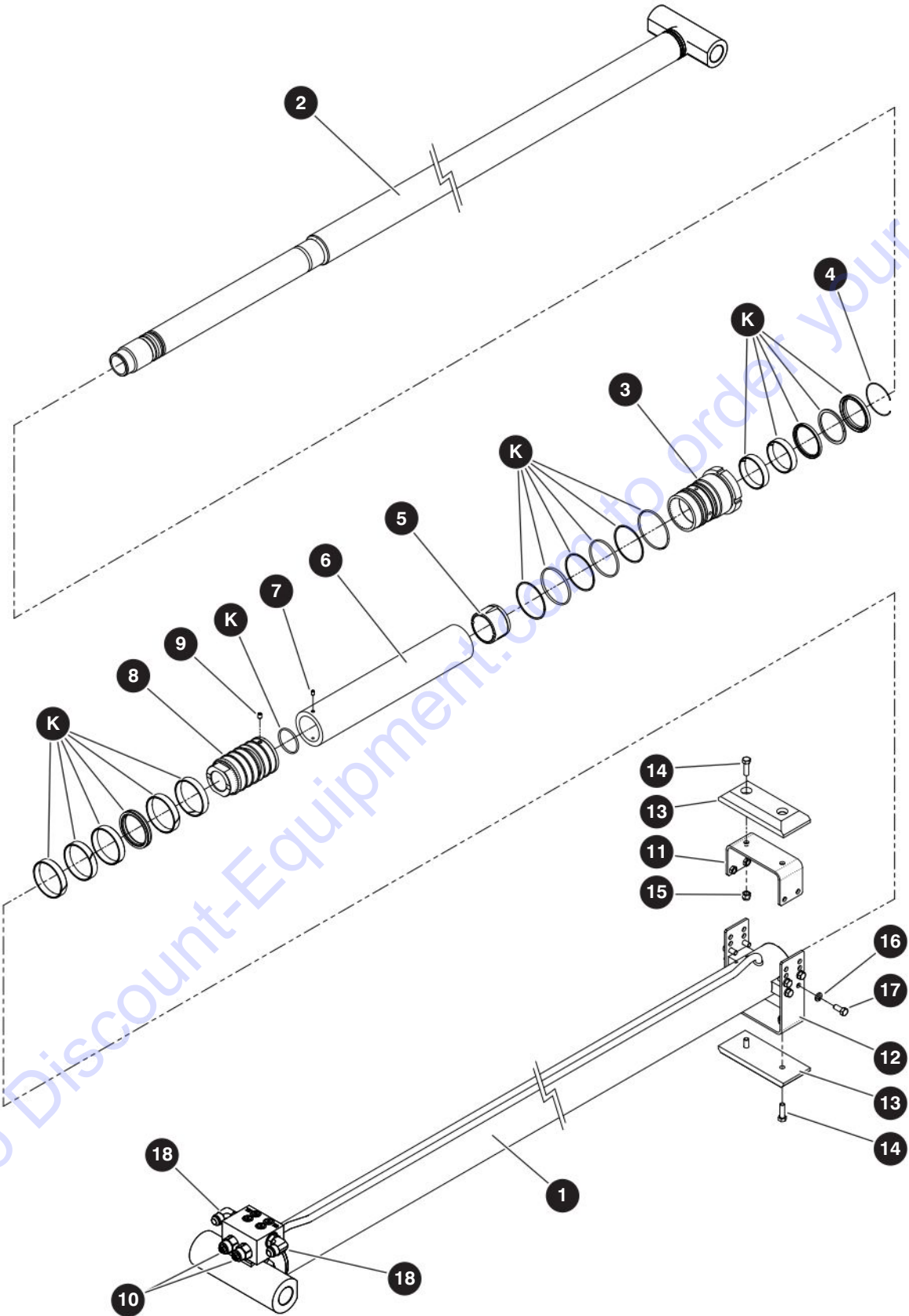
M123456AA

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## 3.2 Slave Cylinder

Index No.	Skyjack Part No.	Qty.	Description
-	197906	1	SLAVE CYLINDER
-	197889	1	• CYLINDER, Slave
1	212742	1	• • TUBE
2	212743	1	• • ROD
3	212744	1	• • GLAND
4	212732	1	• • RING, Retaining
5	212733	1	• • BEARING, Dry
6	212745	1	• • PISTON
7	209121	1	• • BALL, Steel (6.35 mm)
8	212690	1	• • SCREW, Set (M8 x 1.25 x 10)
9	212746	4	• • BEARING, MRP
10	209153	2	• • VALVE, Counterbalance
11	103070	2	• FITTING, Straight (06JICM-08ORBM)
K	212747	1	SEAL KIT, Slave cylinder

### 3.3 Extension Cylinder



M197907AE

229037ADA

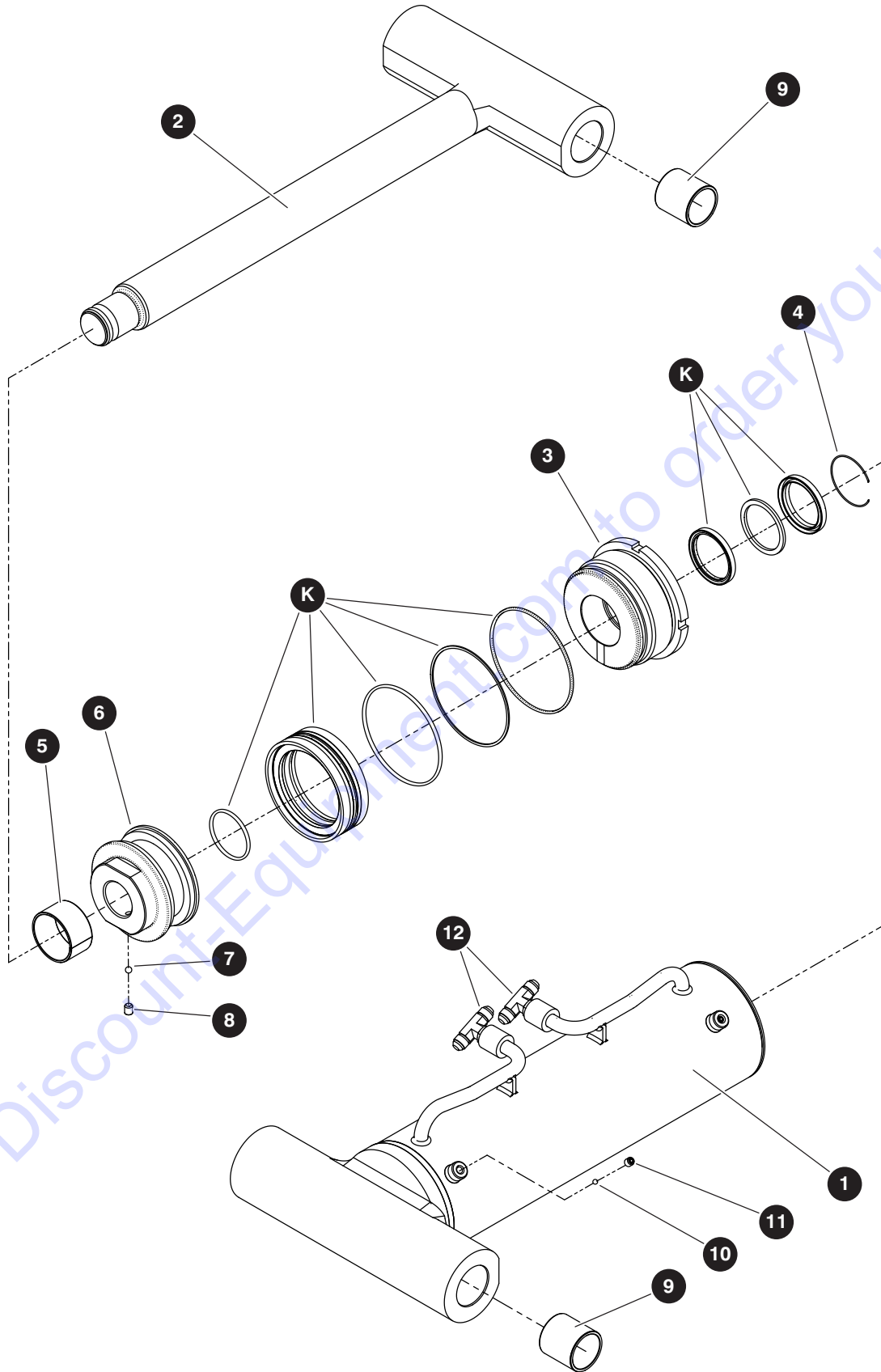
SJ85 AJ

### 3.3 Extension Cylinder

Index No.	Skyjack Part No.	Qty.	Description
-	197907	1	EXTENSION CYLINDER
-	198250	1	• CYLINDER, Extension
1	212709	1	• • TUBE
2	212710	1	• • ROD
3	212711	1	• • GLAND
4	212712	1	• • RING, Retaining
5	212713	1	• • RING, Cushion
6	212714	1	• • SPACER
7	212715	2	• • SCREW, Set (M6 x 1 x 10)
8	212716	1	• • PISTON
9	209122	1	• • SCREW, Set (M8 x 1.25 x 12)
10	213020	2	• • VALVE, Counterbalance
-	198339	1	• SUPPORT, Extension cylinder
11	198340	1	• • PLATE, Top
12	198342	1	• • PLATE, Bottom
13	198343	2	• • PAD, Wear
14	101297	4	• • BOLT, Hex head (0.375"-16 x 1.25" gr 5)
15	104606	4	• • NUT, Lock (0.375"-16 gr 5 nylon)
16	103999	8	• • WASHER, Lock (0.375")
17	125741	8	• • BOLT, Hex head (0.375"-16 x 0.875" gr 8)
18	135091	2	• FITTING, Elbow 90° (10JICM-10ORB)
K	212717	1	SEAL KIT, Extension cylinder



### 3.4 Master Cylinder



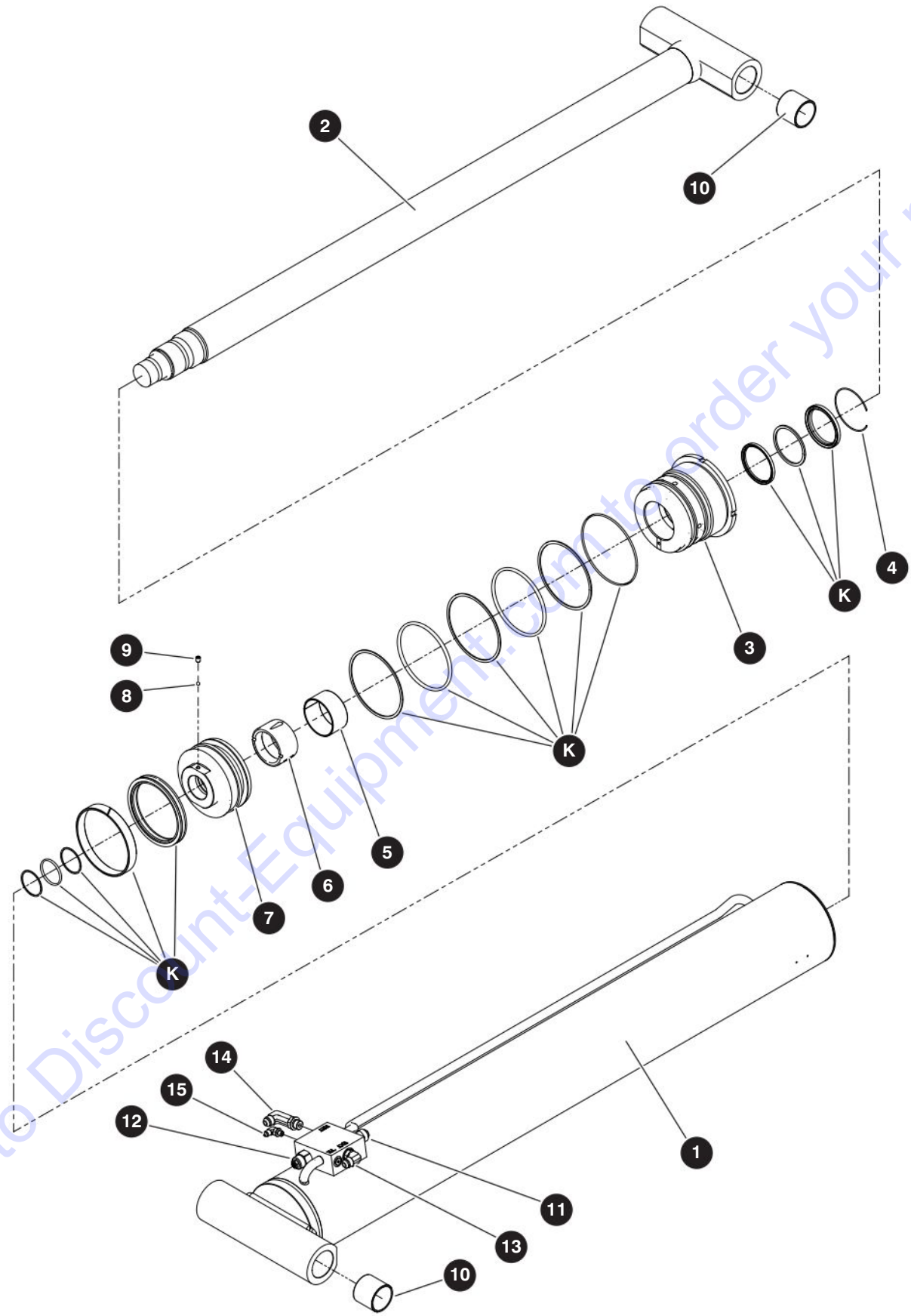
M197905AB

229037ADA

### 3.4 Master Cylinder

Index No.	Skyjack Part No.	Qty.	Description
-	197905	1	MASTER CYLINDER
-	197888	1	• CYLINDER, Master
1	212725	1	• • TUBE
2	212726	1	• • ROD
3	212727	1	• • GLAND
4	212732	1	• • RING, Retaining
5	212733	1	• • BEARING, Dry
6	212734	1	• • PISTON
7	209121	1	• • BALL, Steel (6.35 mm)
8	212690	1	• • SCREW, Set (M8 x 1.25 x 10)
9	212735	4	• • BEARING, MRP
10	212737	2	• • BALL, Steel (4.76 mm)
11	212738	2	• • SCREW, Set (M8 x 1.25 x 8)
12	114579	2	• FITTING, Tee (06JICM-06JICM-06ORB)
K	212739	1	SEAL KIT, Master cylinder

### 3.5 Main Lift Cylinder



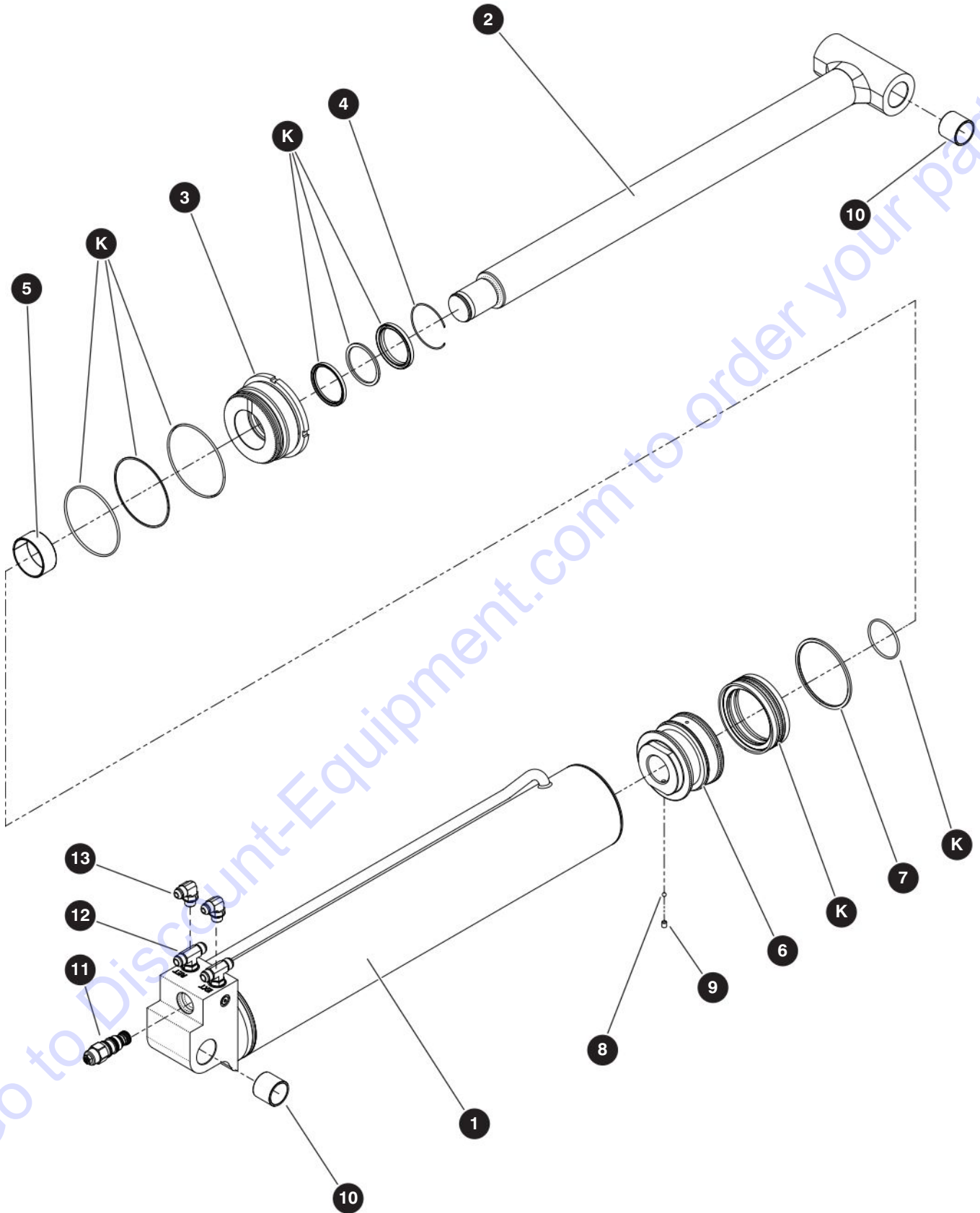
M197904AD

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### 3.5 Main Lift Cylinder

Index No.	Skyjack Part No.	Qty.	Description
-	197904	1	MAIN LIFT CYLINDER
-	197887	1	• CYLINDER, Main lift
1	212696	1	• • TUBE
2	212697	1	• • ROD
3	212698	1	• • GLAND
4	212699	1	• • RING, Retaining
5	212700	1	• • BEARING, Dry
6	212701	1	• • RING, Cushion
7	212702	1	• • PISTON
8	209121	1	• • BALL, Steel (6.35 mm)
9	212690	1	• • SCREW, Set (M8 x 1.25 x 10)
10	212703	4	• • BEARING, MRP
11	213021	1	• • VALVE, Counterbalance - 4000 psi
12	212624	1	• • VALVE, Counterbalance - 2200 psi
13	114583	1	• FITTING, Elbow 90° (08JICM-08ORBM)
14	702798	1	• FITTING, Elbow 90° LL (08JICM-08ORBM)
15	125883	1	• FITTING, Elbow 90° (04JICM-04ORBM)
K	212704	1	SEAL KIT, Main lift cylinder

### 3.6 Riser Cylinder



M197908AE

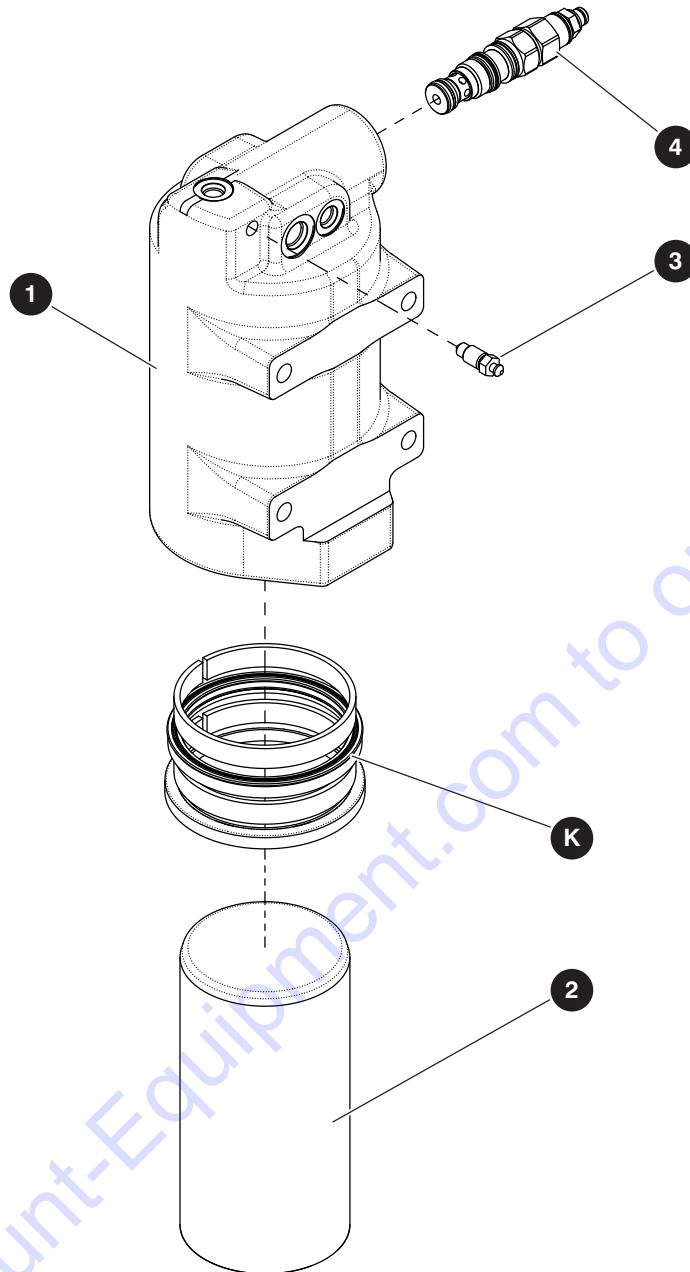
229037ADA

### 3.6 Riser Cylinder

Index No.	Skyjack Part No.	Qty.	Description
-	197908	1	RISER CYLINDER
-	197878	2	• CYLINDER, Riser
1	212682	1	• • TUBE
2	212683	1	• • ROD
3	212684	1	• • GLAND
4	212685	1	• • RING, Retaining
5	212686	1	• • BEARING, Dry
6	212688	1	• • PISTON
7	212689	1	• • RING, Piston
8	209121	1	• • BALL, Steel (6.35 mm)
9	212690	1	• • SCREW, Set (M8 x 1.25 x 10)
10	212691	4	• • BEARING, MRP
11	212663	1	• • VALVE, Counterbalance
12	135061	2	• FITTING, Branch tee (08JICM-08JICM-08ORB)
13	114583	2	• FITTING, Elbow 90° (08JICM-08ORB)
K	212693	1	SEAL KIT, Riser cylinder
T	218661	2	CHOCK, Riser cylinder (not shown)



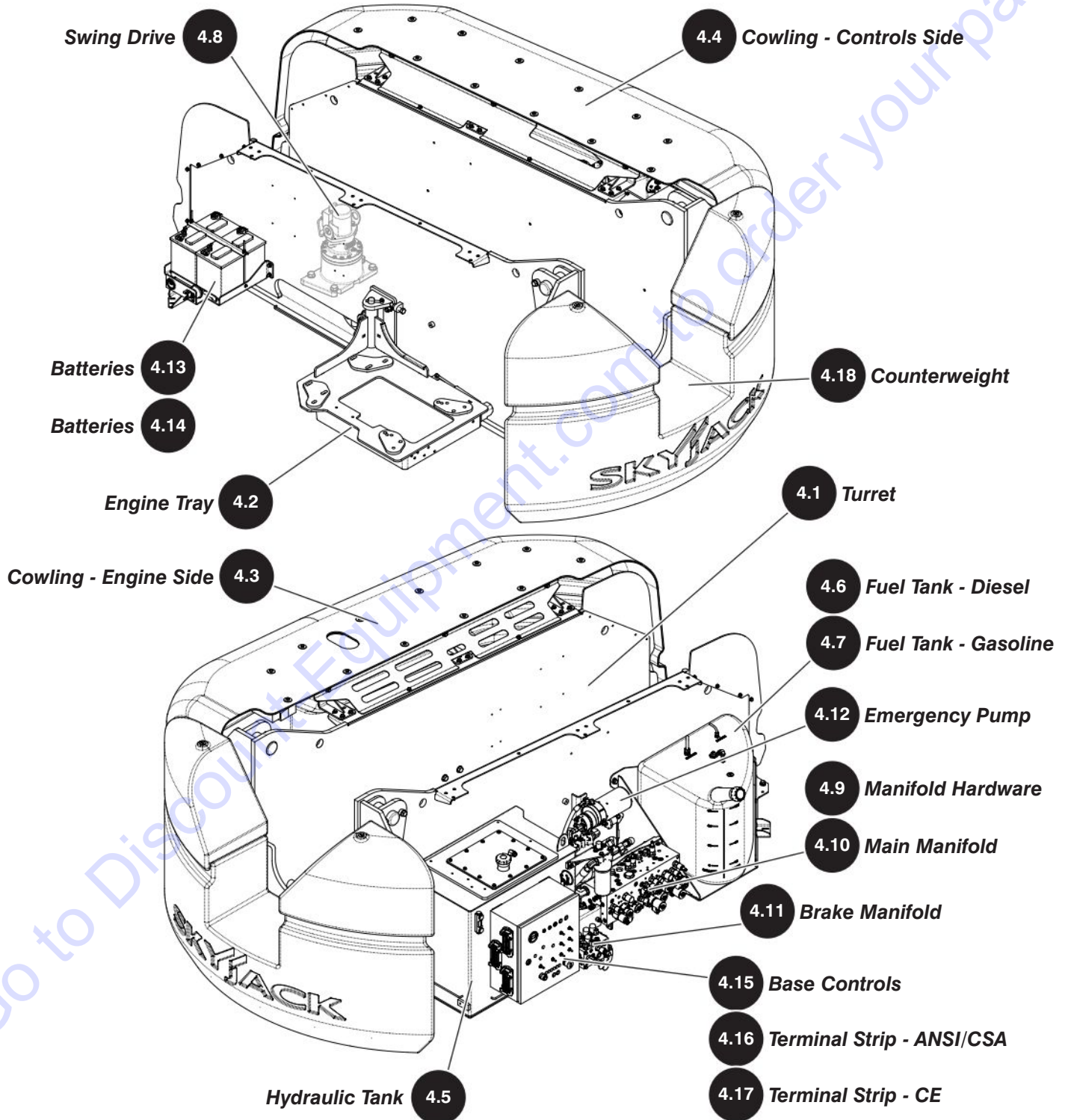
### 3.7 Axle Lock Cylinder



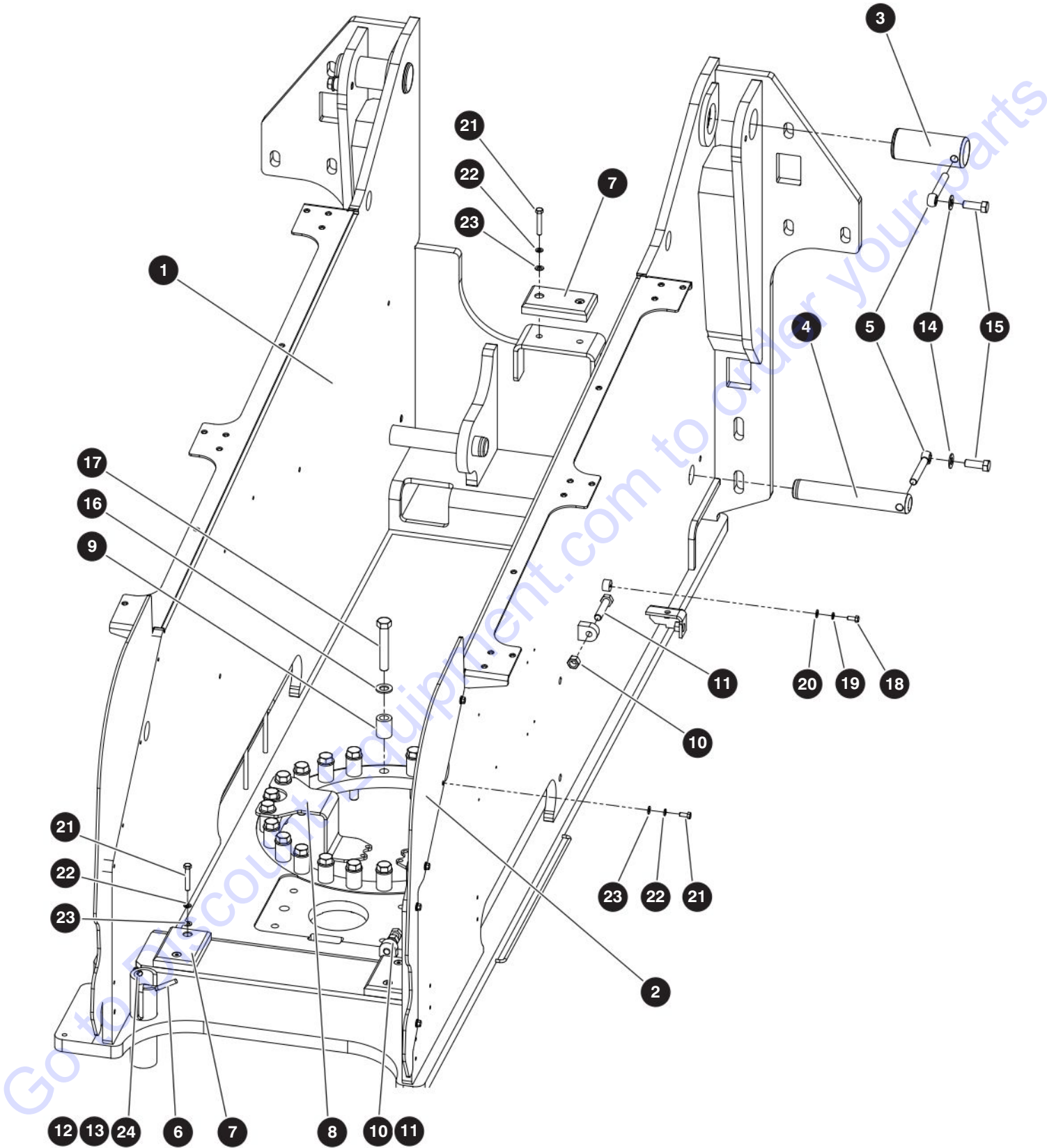
M198433AB

Index No.	Skyjack Part No.	Qty.	Description
-	212871	1	AXLE LOCK CYLINDER
1	154558	1	• BARREL
2	154559	1	• ROD
3	154561	1	• SCREW, Bleed
4	212872	1	• VALVE, Counterbalance - 4800 psi
K	154557	1	SEAL KIT, Axle lock cylinder

# Section 4 – Turret



# 4.1 Turret



M197758AE

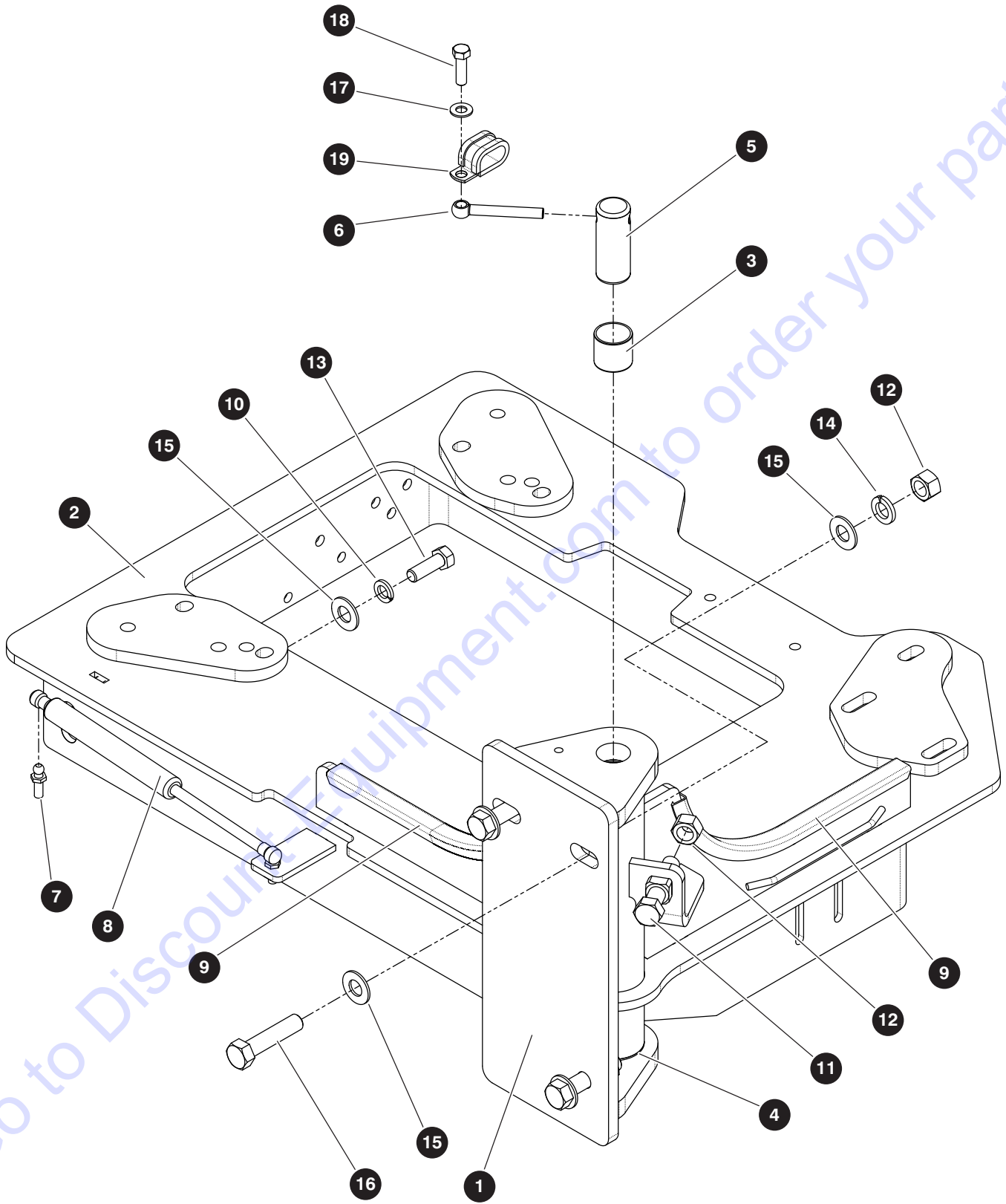
229037ADA

SJ85 AJ

## 4.1 Turret

Index No.	Skyjack Part No.	Qty.	Description
-	197758	1	TURRET
1	197784	1	• TURRET WELDMENT
2	198006	2	• PLATE, Rear turret panel
3	197727	2	• PIN, 2.750 dia X 6.875 long
4	153690	2	• PIN, 1.75 dia x 10.688 long
5	146898	4	• PIN, Keeper (0.625")
6	159483	1	• PIN, Transportation locking
7	212857	3	• PAD, Riser
8	153710	2	• BRACKET, Mounting - rotary manifold
9	159418	24	• SPACER, Slewing ring
10	103981	2	• NUT, Hex (0.625"-11 gr 5)
11	154197	2	• BOLT, Hex head (0.625"-11 x 3.000")
12	103856	1	• BOLT, Hex head (0.25"-20 x 0.750" gr 5)
13	115649	1	• NUT, Lock (0.250"-20 gr 5 nylon)
14	700782	4	• WASHER, Flat (0.625" hardened)
15	148944	4	• BOLT, Hex head patch (0.625"-11 x 1.75" gr 8)
16	702194	24	• WASHER, Flat (0.75" hard)
17	138276	24	• BOLT, Hex head (0.75"-10 X 4.500" gr 8)
18	103887	2	• BOLT, Hex head (0.312"-18 X 0.75" gr 5)
19	103404	2	• WASHER, Lock (0.312")
20	103996	2	• WASHER, Flat (0.312")
21	101297	16	• BOLT, Hex head (0.375"-16 x 1.25 gr5)
22	103999	16	• WASHER, Lock (0.375")
23	103472	16	• WASHER, Flat (0.375")
24	103995	1	• WASHER, Flat (0.25")

## 4.2 Engine Tray



M198147AD

229037ADA

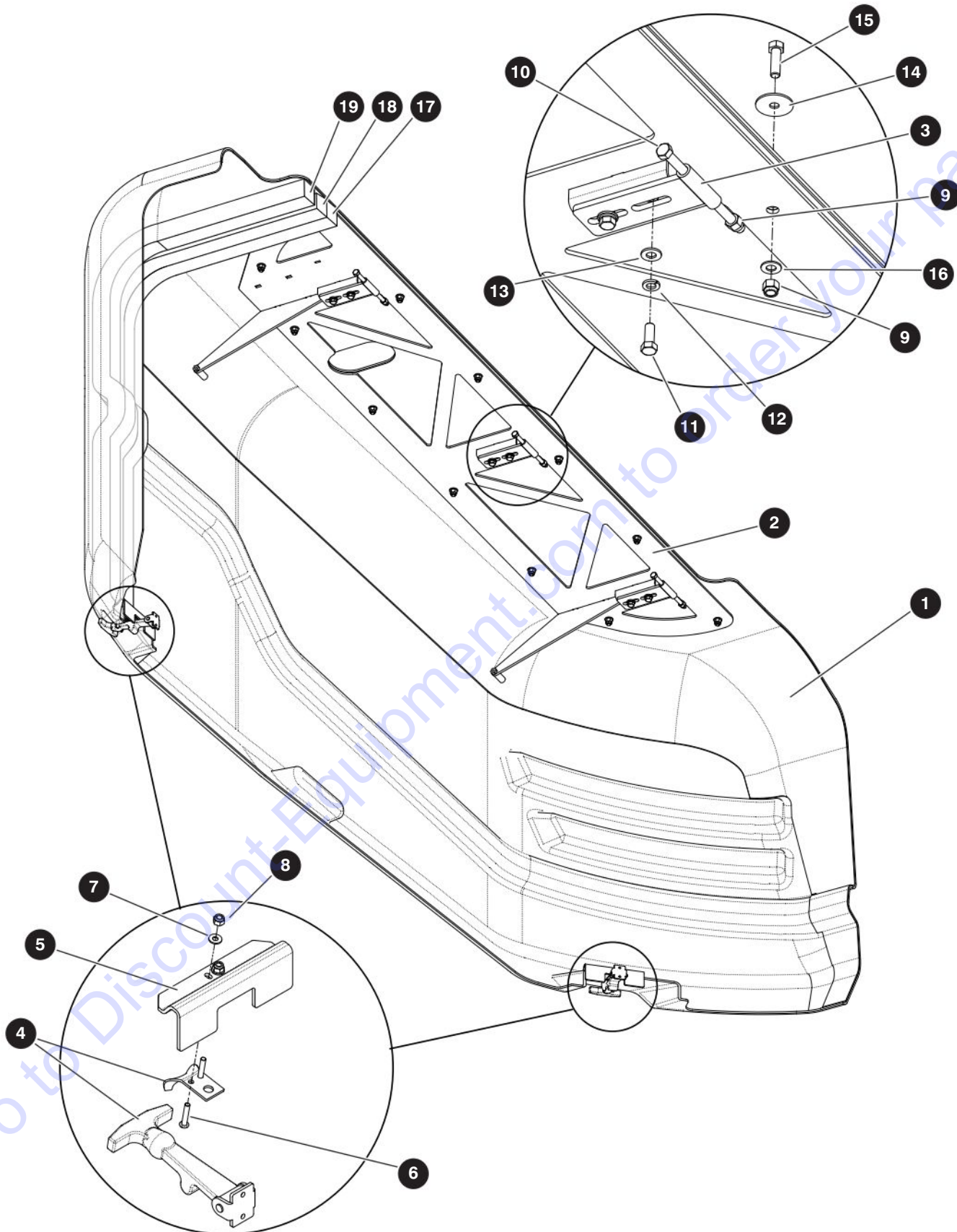
SJ85 AJ

## 4.2 Engine Tray

Index No.	Skyjack Part No.	Qty.	Description
-	198147	1	ENGNE TRAY
1	154164	1	• MOUNT, Engine tray
2	226238	1	• TRAY, Engine
3	100071	2	• BUSHING, Fiberglide
4	121703	1	• WASHER, Thrust - Fiberglide
5	148846	2	• PIN, Boom (1.25" dia x 3.125" long)
6	146897	2	• PIN, Keeper (0.375")
7	146903	2	• STUD, Ball (10 mm)
8	162038	1	• SPRING, Gas (16" lg - 157 lb-f)
9	119922	28"	• TRIM, Protective (0.25"-0.50")
10	103470	1	• WASHER, Lock (0.50" gr 5)
11	154197	1	• BOLT, Hex head (0.625"-11 x 3.000" gr 5)
12	103981	4	• NUT, Hex (0.625"-11 gr 5)
13	103907	1	• BOLT, Hex head (0.50"-13 x 1.500" gr 5)
14	103998	3	• WASHER, Lock (0.625")
15	700782	7	• WASHER, Flat (0.625" hard)
16	125747	3	• BOLT, Hex head (0.625"-11 x 2.750" gr 5)
17	103472	2	• WASHER, Flat (0.375")
18	101297	2	• BOLT, Hex head (0.375"-16 x 1.250" gr 5)
19	103078	1	• CLAMP, Loop



## 4.3 Cowling - Engine Side



M197984AC

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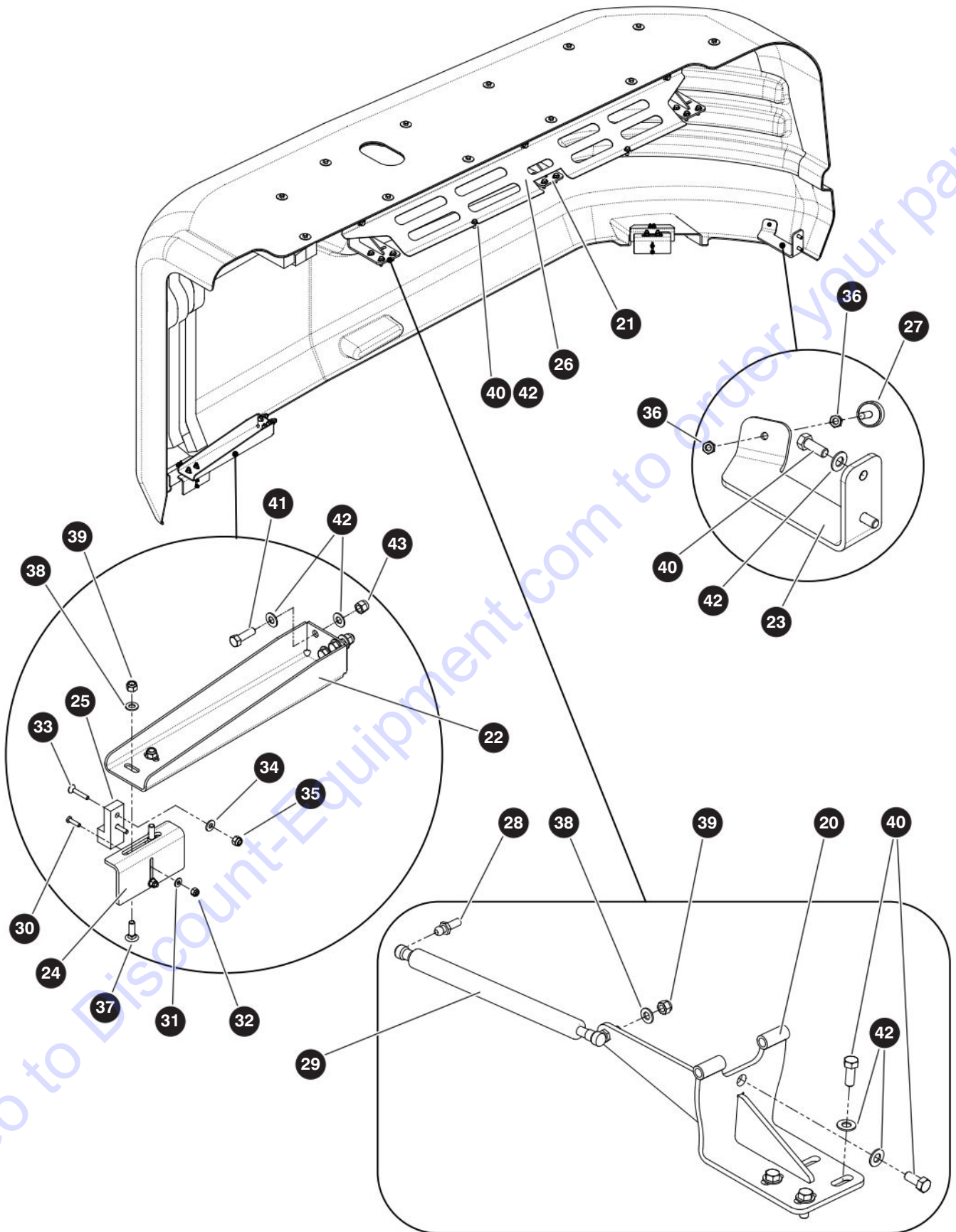
SJ85 AJ

## 4.3 Cowling - Engine Side

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	197982	1	COWLING ASSEMBLY - RH, <b>ANSI/CSA, AS, CE all engines except TCD 2.2</b>
<b>B</b>	226284	1	COWLING ASSEMBLY - RH, <b>CE with TCD 2.2</b>
-	197984	1	• COWLING, RH
1	197986	1	• • SHELL, Cowling - RH
2	197993	1	• • MOUNT, Cowling
3	149484	3	• • HINGE, Upper
4	144002	2	• • LATCH, Flexible draw
5	154172	2	• • STOP, Cowling
6	151155	4	• • SCREW, Round head machine (10-24 x 1.00")
7	104694	4	• • WASHER, Flat (#10)
8	126642	4	• • NUT, Lock (10-24 gr 5 nylon)
9	104606	15	• • NUT, Lock (0.375"-16 gr 5 nylon)
10	138736	3	• • BOLT, Hex head (0.375"-16 x 6.00" gr 5)
11	103473	6	• • BOLT, Hex head (0.375"-16 x 1.00" gr 5)
12	103999	6	• • WASHER, Lock (0.375")
13	125959	6	• • WASHER, Flat (0.375" hard)
14	127067	12	• • WASHER, Flat (0.375" style BB)
15	101297	12	• • BOLT, Hex head (0.375"-16 x 1.25" gr 5)
16	103472	12	• • WASHER, Flat (0.375")
17	148368	72"	• • FOAM SEAL (2" x 2")
18	148368	66"	• • FOAM SEAL (2" x 2")
19	148368	66"	• • FOAM SEAL (2" x 2")

**Parts list continued on the next page.**

### 4.3 Cowling - Engine Side



M197982AB

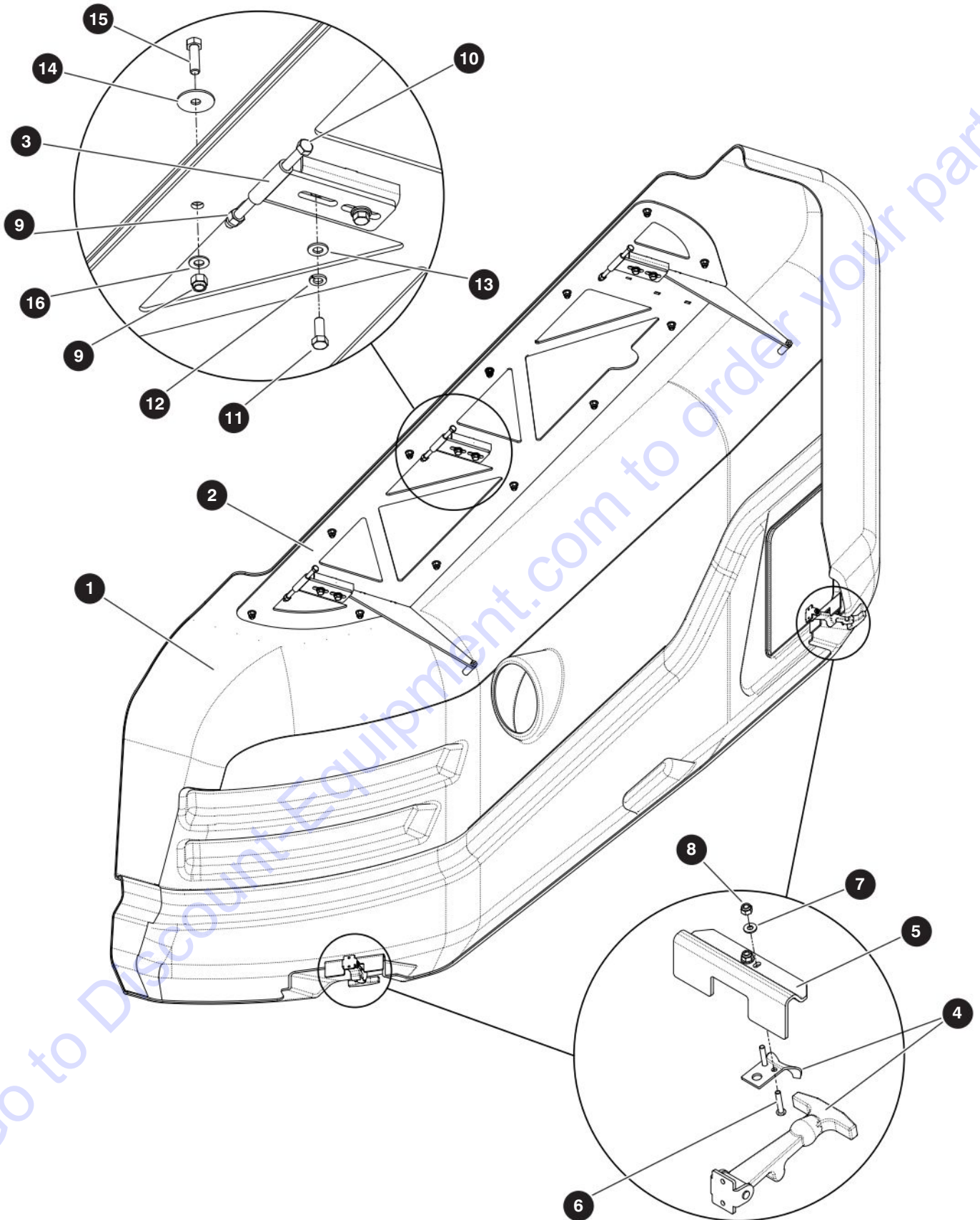
229037ADA

## 4.3 Cowling - Engine Side

Index No.	Skyjack Part No.	Qty.	Description
			<b>Parts list continued from the previous page.</b>
20	197759	2	• HINGE, Outer, <b>A</b>
	226281	2	• HINGE, Outer, <b>B</b>
21	197998	1	• HINGE, Center
22	197990	1	• BRACKET, Latch - front right, <b>A</b>
	232731	1	• BRACKET, Latch - front right, <b>B</b>
23	153881	1	• BRACKET, Standoff - RH
24	162151	2	• BRACKET, Mount - latch
25	162136	2	• SUPPORT, Cowling
26	197996	1	• HINGE, Cover - RH
27	144015	1	• MOUNT, Anit-vibration (0.25"-20 UNC)
28	146903	4	• STUD, Ball (10 mm)
29	146902	2	• SPRING, Gas
30	138834	4	• SCREW, Round head machine (10-24 x 0.75")
31	104694	4	• WASHER, Flat (#10)
32	126642	4	• NUT, Lock (10-24 gr 5 nylon)
33	163397	4	• SCREW, Flat head hex (0.25"-20 x 1.25" gr 5)
34	103995	4	• WASHER, Flat (0.25")
35	115649	4	• NUT, Lock (0.25"-20 gr 5 nylon)
36	103983	2	• NUT, Hex head jam (0.25"-20 gr 5)
37	133216	4	• BOLT, Carriage (0.312"-18 x 1.00" gr 5)
38	103996	6	• WASHER, Flat (0.312")
39	103984	6	• NUT, Lock (0.312"-18 gr 5 nylon)
40	103473	16	• BOLT, Hex head (0.375"-16 x 1.00" gr 5)
41	101297	2	• BOLT, Hex head (0.375"-16 x 1-1/4" gr 5), <b>A</b>
	103870	2	• BOLT, Hex head (0.375"-16 x 1-1/4" gr 5), <b>B</b>
42	103472	20	• WASHER, Flat (0.375")
43	104606	2	• NUT, Lock (0.375-16 gr 5 nylon)



## 4.4 Cowling - Controls Side



M197983AC

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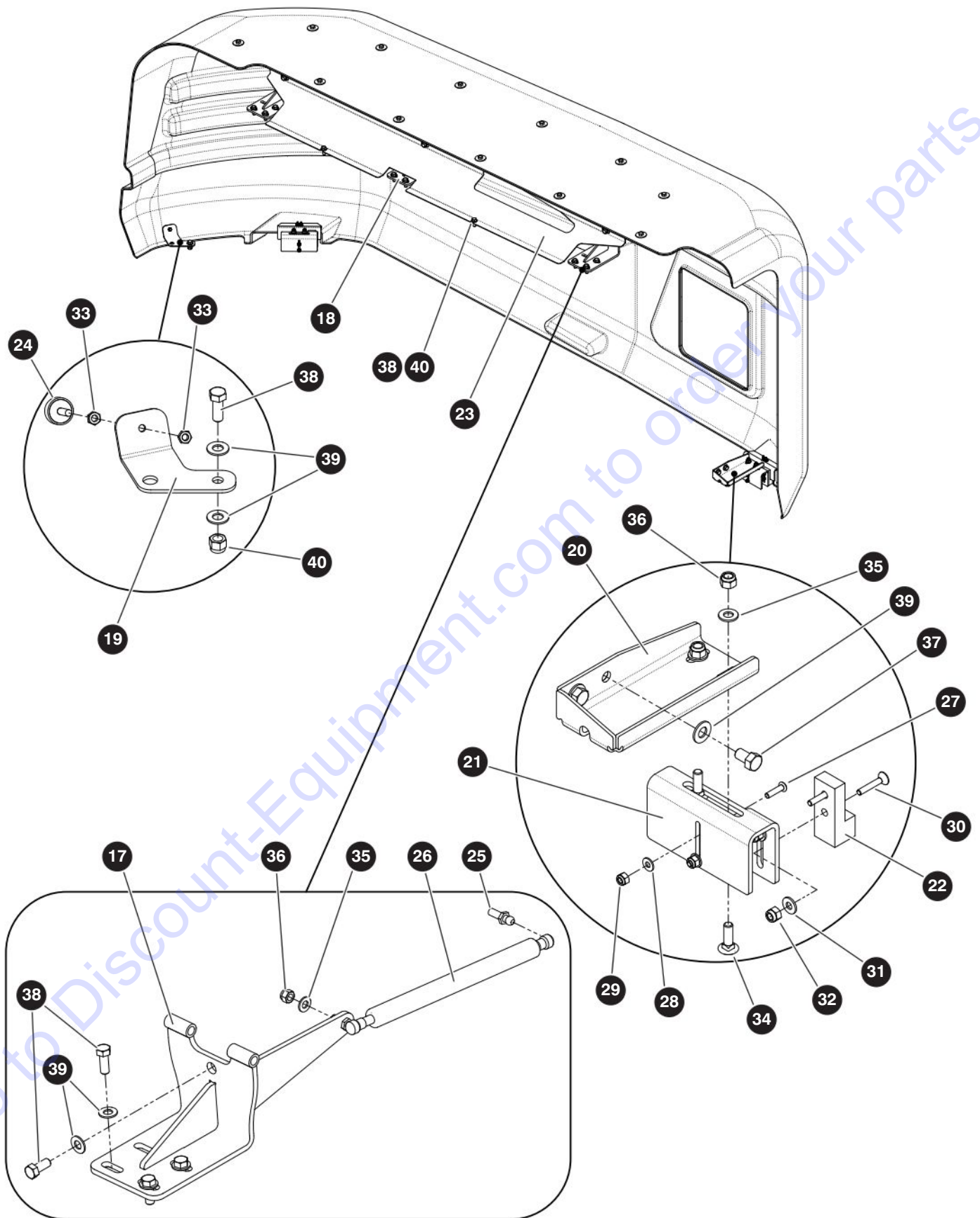
SJ85 AJ

## 4.4 Cowling - Controls Side

Index No.	Skyjack Part No.	Qty.	Description
-	197981	1	COWLING ASSEMBLY, LH
-	197983	1	• COWLING, LH
1	197985	1	• • SHELL, Cowling - LH
2	197987	1	• • MOUNT, Cowling
3	149484	3	• • HINGE, Upper
4	144002	2	• • LATCH, Flexible draw
5	154172	2	• • STOP, Cowling
6	151155	4	• • SCREW, Round head machine (10-24 x 1.00")
7	104694	4	• • WASHER, Flat (#10)
8	126642	4	• • NUT, Lock (10-24 gr 5 nylon)
9	104606	15	• • NUT, Lock (0.375"-16 gr 5 nylon)
10	138736	3	• • BOLT, Hex head (0.375"-16 x 6.00" gr 5)
11	103473	6	• • BOLT, Hex head (0.375"-16 x 1.00" gr 5)
12	103999	6	• • WASHER, Lock (0.375")
13	125959	6	• • WASHER, Flat (0.375" hard)
14	127067	12	• • WASHER, Flat (0.375" style BB)
15	101297	12	• • BOLT, Hex head (0.375"-16 x 1.25" gr 5)
16	103472	12	• • WASHER, Flat (0.375")
			<b>Parts list continued on the next page.</b>



## 4.4 Cowling - Controls Side



M197981AB

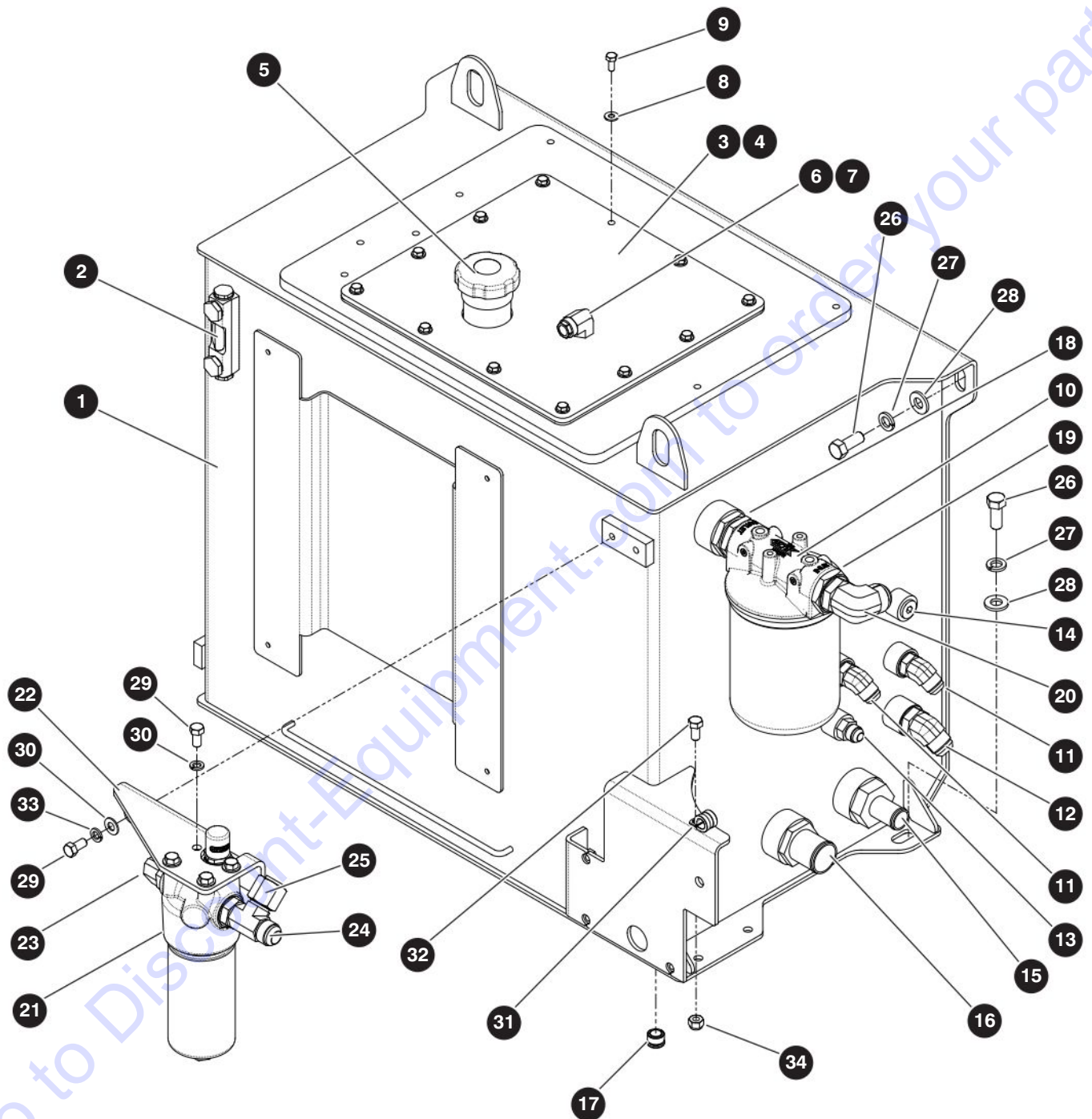
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SJ85 AJ

## 4.4 Cowling - Controls Side

Index No.	Skyjack Part No.	Qty.	Description
<b>Parts list continued from the previous page.</b>			
17	197759	2	• HINGE, Outer
18	197998	1	• HINGE, Center
19	197992	1	• BRACKET, Bumper - LH
20	197991	1	• BRACKET, Mounting - handle
21	162151	2	• BRACKET, Mounting - latch
22	162136	2	• SUPPORT, Cowling
23	197997	1	• HINGE, Cowling cover - LH
24	144015	1	• MOUNT, Anit-vibration (0.25"-20 UNC)
25	146903	4	• STUD, Ball (10 mm)
26	146902	2	• SPRING, Gas
27	138834	4	• SCREW, Round head machine (10-24 x 0.75")
28	104694	4	• WASHER, Flat (#10)
29	126642	4	• NUT, Lock (10-24 gr 5 nylon)
30	163397	4	• SCREW, Flat head hex (0.25"-20 x 1.25" gr 5)
31	103995	4	• WASHER, Flat (0.25")
32	115649	4	• NUT, Lock (0.25"-20 gr 5 nylon)
33	103983	2	• NUT, Hex head jam (0.25"-20 gr 5)
34	133216	4	• BOLT, Carriage (0.312"-18 x 1.00" gr 5)
35	103996	6	• WASHER, Flat (0.312")
36	103984	6	• NUT, Lock (0.312"-18 gr 5 nylon)
37	138464	2	• BOLT, Hex head (0.375"-16 x 0.625" gr 5)
38	103473	15	• BOLT, Hex head (0.375"-16 x 1.00" gr 5)
39	103472	18	• WASHER, Flat (0.375")
40	104606	1	• NUT, Lock (0.375"-16 gr 5 nylon)

## 4.5 Hydraulic Tank



M197970AF

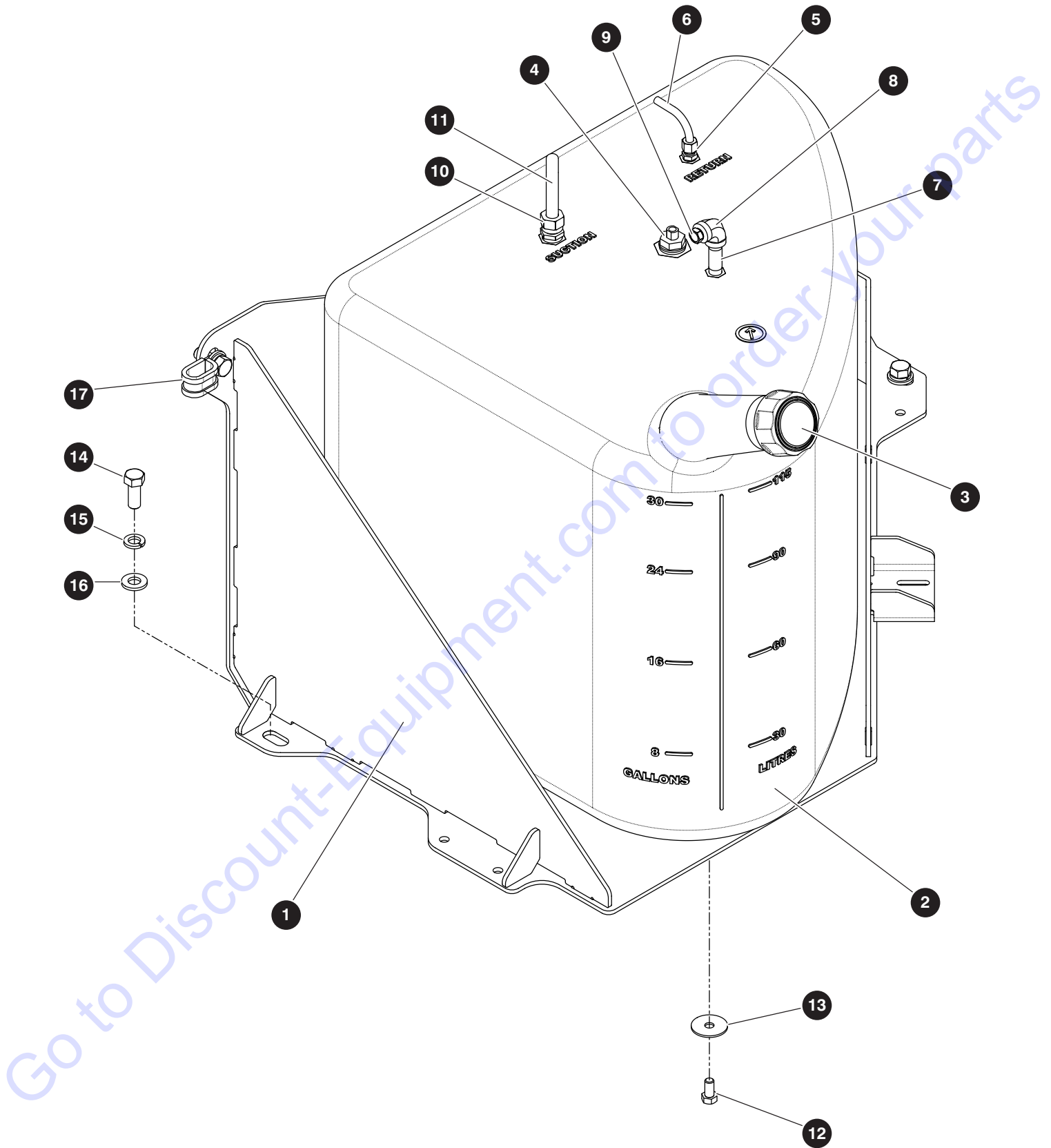
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## 4.5 Hydraulic Tank

Index No.	Skyjack Part No.	Qty.	Description
-	197970	1	HYDRAULIC TANK
-	198478	1	• HYDRAULIC TANK ASSEMBLY
-	197971	1	• • TANK, Hydraulic
1	197972	1	• • • TANK, Hydraulic
2	138480	1	• • • GAUGE, Level/temp
3	147443	1	• • • GASKET, Cover
4	147417	1	• • • COVER, Tank
5	136361	1	• • • CAP, Filler - non-vented
6	137540	1	• • • VENT, Breather
7	144520	1	• • • FITTING, Elbow 90° (06NPTF-06NPTM)
8	103985	12	• • • WASHER, Flat (0.25")
9	103892	12	• • • BOLT, Hex head (0.25"-20 x 0.625" gr 5)
10	161933	1	• • FILTER, Return - in-line
	161948	1	• • • ELEMENT, Filter - in-line return
11	149215	2	• • FITTING, Elbow 45° (10JICM-10ORBM)
12	131707	1	• • FITTING, Elbow, 45° (12JICM-12ORBM)
13	102659	1	• • FITTING, Straight (08JICM-08ORBM)
14	702796	1	• • FITTING, Plug (08ORB hex socket)
15	147531	1	• • FITTING, Straight (20ORBM-16BEAD)
16	165485	1	• • FITTING, Straight (20ORBM-24BEAD)
17	143980	1	• • FITTING, Plug - magnetic (08ORBM)
18	139101	1	• • FITTING, Straight (20ORBM-20ORBM)
19	165483	1	• • FITTING, Straight (20ORBM-16ORBF)
20	707040	1	• • FITTING, Elbow 90° (16JICM-16ORBM)
21	161932	1	• FILTER, High pressure (25 gpm with indicator)
	161947	1	• • ELEMENT, Filter - high pressure
	169246	1	• • PLUG, Indicator with seals
22	197979	1	• BRACKET, High pressure filter
23	105445	1	• FITTING, Elbow 90° (12JICM-12ORBM)
24	144116	1	• FITTING, Run tee (12JICM-12ORBM-12JICM)
25	131753	1	• FITTING, Cap (12JICF)
26	104379	6	• WASHER, Flat (0.50" hard)
27	126286	4	• WASHER, Lock (0.50" gr 8)
28	103910	4	• BOLT, Hex head (0.50"-13 X 1.25" gr 8)
29	101632	6	• BOLT, Hex head (0.375"-16 X 0.75" gr 5)
30	103472	6	• WASHER, Flat (0.375")
31	102929	1	• CLAMP, Single clip (G10)
32	103875	1	• BOLT, Hex head (0.25"-20 X 1.00" gr 5)
33	103999	2	• WASHER, Lock (0.375")
34	115649	1	• NUT, Lock (0.255"-20 gr 5 nylon)

## 4.6 Fuel Tank - Diesel



M198010AD

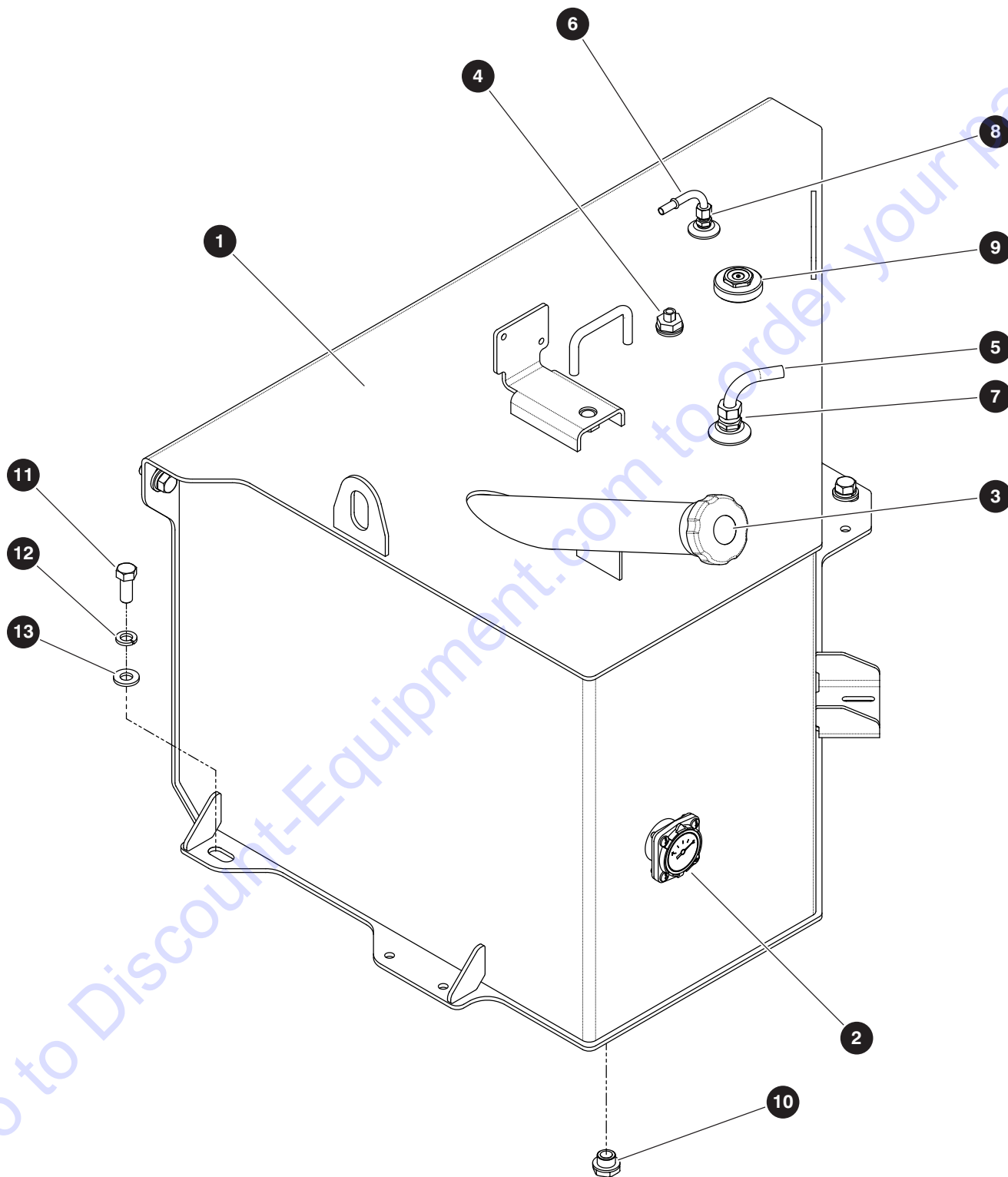
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SJ85 AJ

## 4.6 Fuel Tank - Diesel

Index No.	Skyjack Part No.	Qty.	Description
-	198010	1	FUEL TANK, Diesel
1	198014	1	• TRAY, Tank
-	210471	1	• TANK, Diesel
2	210472	1	• • TANK, Diesel - molded
3	144410	1	• • CAP, Fuel (non EPA)
4	138230	1	• • SWITCH, Fuel level
5	103155	1	• • FITTING, Brass tank (04NPT)
6	138491	1	• • TUBE, Fuel send/return
7	143478	1	• • FITTING, Nipple (04NPT x 2.00" lg brass)
8	144325	1	• • FITTING, Elbow 90° (04NPTF-04NPTF brass)
9	116408	1	• • VENT, Breather (04NPT)
10	164674	1	• • FITTING, Compression - tube
11	164673	1	• • TUBE, Suction - fuel
12	138739	4	• BOLT, Hex head patch (0.375"-16 x 0.75" gr5)
13	127067	4	• WASHER, Flat (0.375 style BB)
14	103910	4	• BOLT, Hex head (0.50"-13 x 1.25" gr 8)
15	126286	4	• WASHER, Lock (0.50" gr 8)
16	104379	4	• WASHER, Flat (0.50" hard)
17	152333	1	• CLAMP, Tube (0.625")

## 4.7 Fuel Tank - Gasoline



M197960AB

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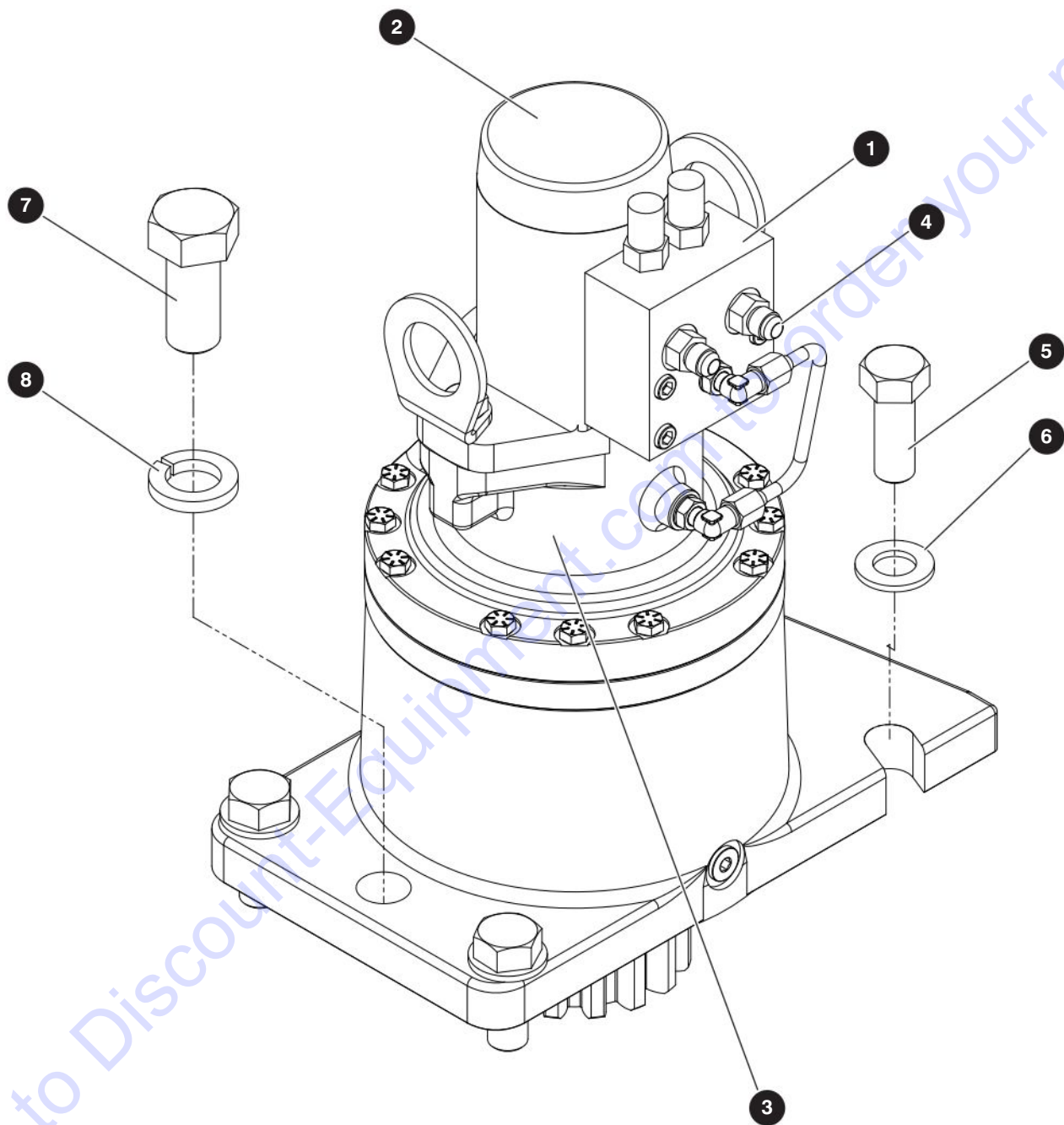
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## 4.7 Fuel Tank - Gasoline

Index No.	Skyjack Part No.	Qty.	Description
-	197960	1	FUEL TANK ASSEMBLY - GASOLINE
-	197961	1	• TANK, Fuel - steel
1	197963	1	• • TANK, Fuel
2	144393	1	• • GAUGE, Fuel level
3	198479	1	• • CAP, Filler
4	138230	1	• • SWITCH, Fuel level
5	164673	1	• • TUBE, Suction
6	144338	1	• • TUBE, Send/return
7	164674	1	• • FITTING, Compression tube (0.50" OD x 0.50" NPT)
8	103115	1	• • FITTING, Brass tank (T68-5B, 0.25" NPT)
9	144392	1	• • VALVE, Dual action
10	117701	1	• • PLUG, Tank - magnetic (0.75"-16 UNF)
11	103910	4	• BOLT, Hex head (0.50"-13 x 1.25" gr 8)
12	126286	4	• WASHER, Lock (0.50" gr 8)
13	104379	4	• WASHER, Flat (0.50" hard)

## 4.8 Swing Drive



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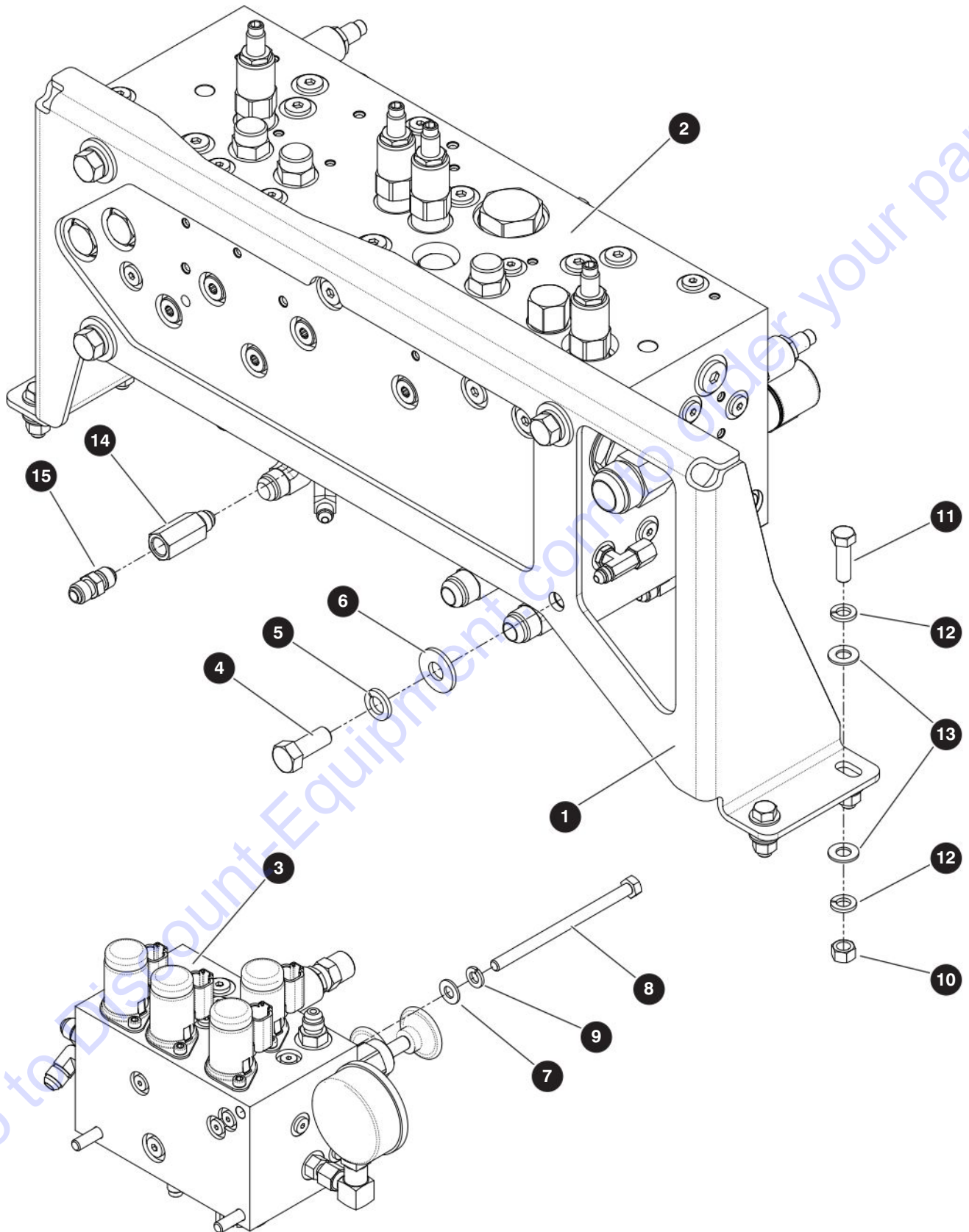
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## 4.8 Swing Drive

Index No.	Skyjack Part No.	Qty.	Description
-	198218	1	SWING DRIVE
-	212858	1	• SWING DRIVE, Turret Rotate
1	170931	1	• • MANIFOLD, Swing drive
	171421	2	• • • VALVE, Counterbalance
	194480	2	• • • O-RING
2	170930	1	• • MOTOR, Hydraulic
3	-	1	• • BRAKE, Hydraulic
	168873	1	• • • BRAKE SUBASSEMBLY (includes rotor, stator, seals)
	194472	1	• • • CARRIER SUBASSEMBLY (includes shaft, carrier, bearings, gears)
	194473	1	• • • SHAFT, Output
	194474	1	• • • CUP, Bearing - tapered (lower)
	194475	1	• • • CONE, Bearing - tapered (lower)
	194476	1	• • • HOUSING, Brake
	194477	1	• • • CUP, Bearing - tapered (upper)
	194478	1	• • • CONE, Bearing - tapered (upper)
	194479	1	• • • GEAR, Sun
4	103069	2	• FITTING, Straight (06JICM-06ORBM)
5	159237	4	• BOLT, Hex head (0.75"-10 x 2.00" gr 8)
6	702194	4	• WASHER, Flat (0.75" hard)
7	139181	1	• BOLT, Hex head (1.0"-8 x 2.50" gr 8)
8	107948	1	• WASHER, Lock (1.00")
K1	168874	1	SEAL KIT, Brake (not shown)
K2	168875	1	SEAL KIT, Main shaft & ring gear (not shown)
K3	TBD	1	SPRING KIT, Brake (not shown)

## 4.9 Main & Brake Manifold Hardware



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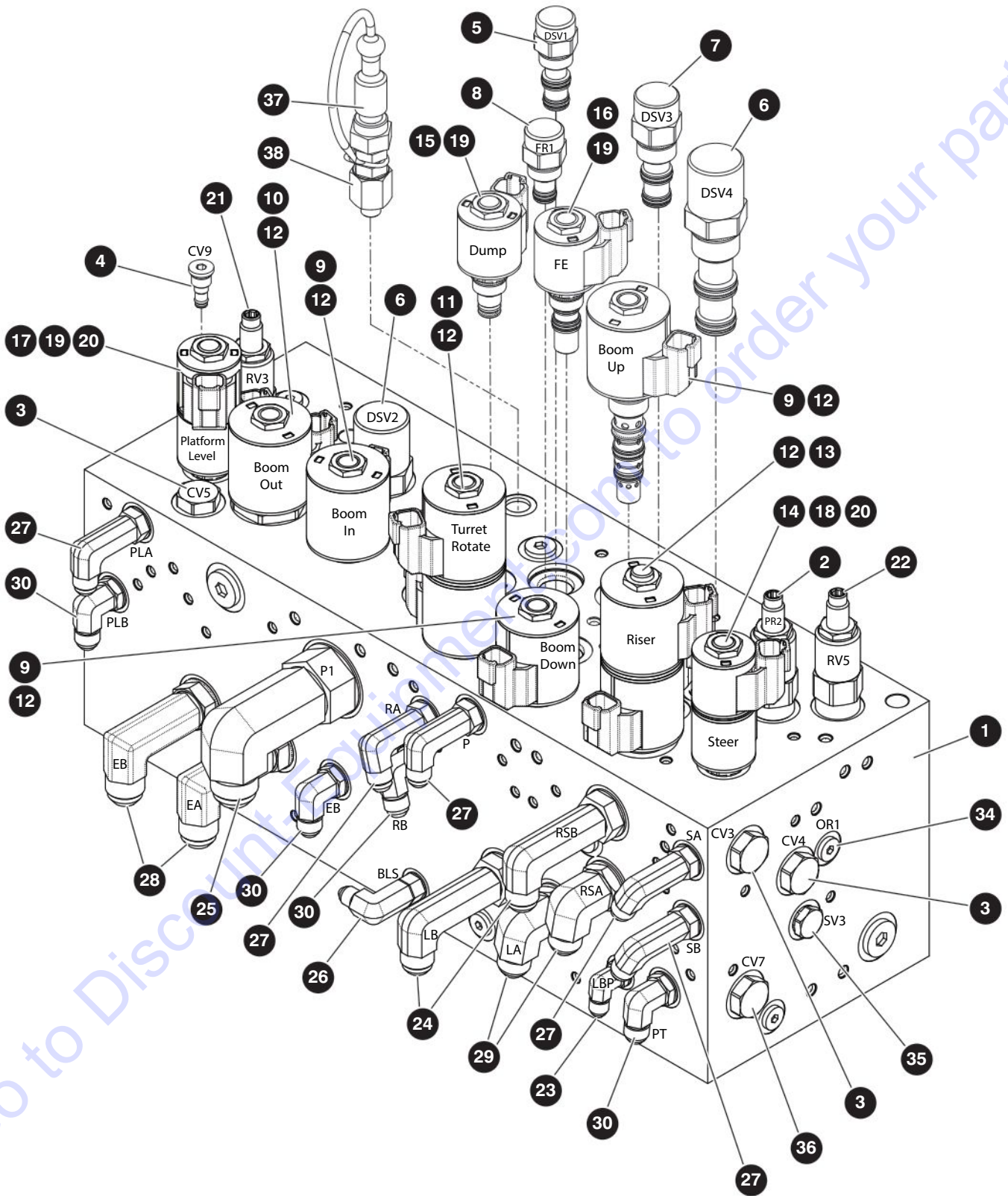
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## 4.9 Main & Brake Manifold Hardware

Index No.	Skyjack Part No.	Qty.	Description
-	198219	1	MAIN & BRAKE VALVES
1	198001	1	<ul style="list-style-type: none"> <li>• BRACKET, Main Manifold</li> </ul>
2	(Ref.)	1	<ul style="list-style-type: none"> <li>• MAIN MANIFOLD (For components, refer to 4.10 Main Manifold)</li> </ul>
3	(Ref.)	1	<ul style="list-style-type: none"> <li>• BRAKE MANIFOLD (For components, refer to 4.11 Brake Manifold)</li> </ul>
4	103909	4	<ul style="list-style-type: none"> <li>• BOLT, Hex head (0.50"-13 X 1.250 gr 5)</li> </ul>
5	103470	4	<ul style="list-style-type: none"> <li>• WASHER, Lock (0.50" gr 5)</li> </ul>
6	104379	4	<ul style="list-style-type: none"> <li>• WASHER, Flat (0.50" USS)</li> </ul>
7	103996	3	<ul style="list-style-type: none"> <li>• WASHER, Flat (0.312")</li> </ul>
8	138762	3	<ul style="list-style-type: none"> <li>• BOLT, Hex head (0.312"-18 X 5.00" gr 5)</li> </ul>
9	103404	3	<ul style="list-style-type: none"> <li>• WASHER, Lock (0.312")</li> </ul>
10	103978	4	<ul style="list-style-type: none"> <li>• NUT, Hex (0.375"-16 gr 5)</li> </ul>
11	101297	4	<ul style="list-style-type: none"> <li>• BOLT, Hex head (0.375"-16 X 1.25" gr 5)</li> </ul>
12	103999	8	<ul style="list-style-type: none"> <li>• WASHER, Lock (0.375")</li> </ul>
13	103472	8	<ul style="list-style-type: none"> <li>• WASHER, Flat (0.375")</li> </ul>
14	171434	1	<ul style="list-style-type: none"> <li>• VALVE, Check - inline (06JICF-06JICM)</li> </ul>
15	162110	1	<ul style="list-style-type: none"> <li>• FITTING, Straight (06JICM-06JICM)</li> </ul>

# 4.10 Main Manifold



M198103AH-1

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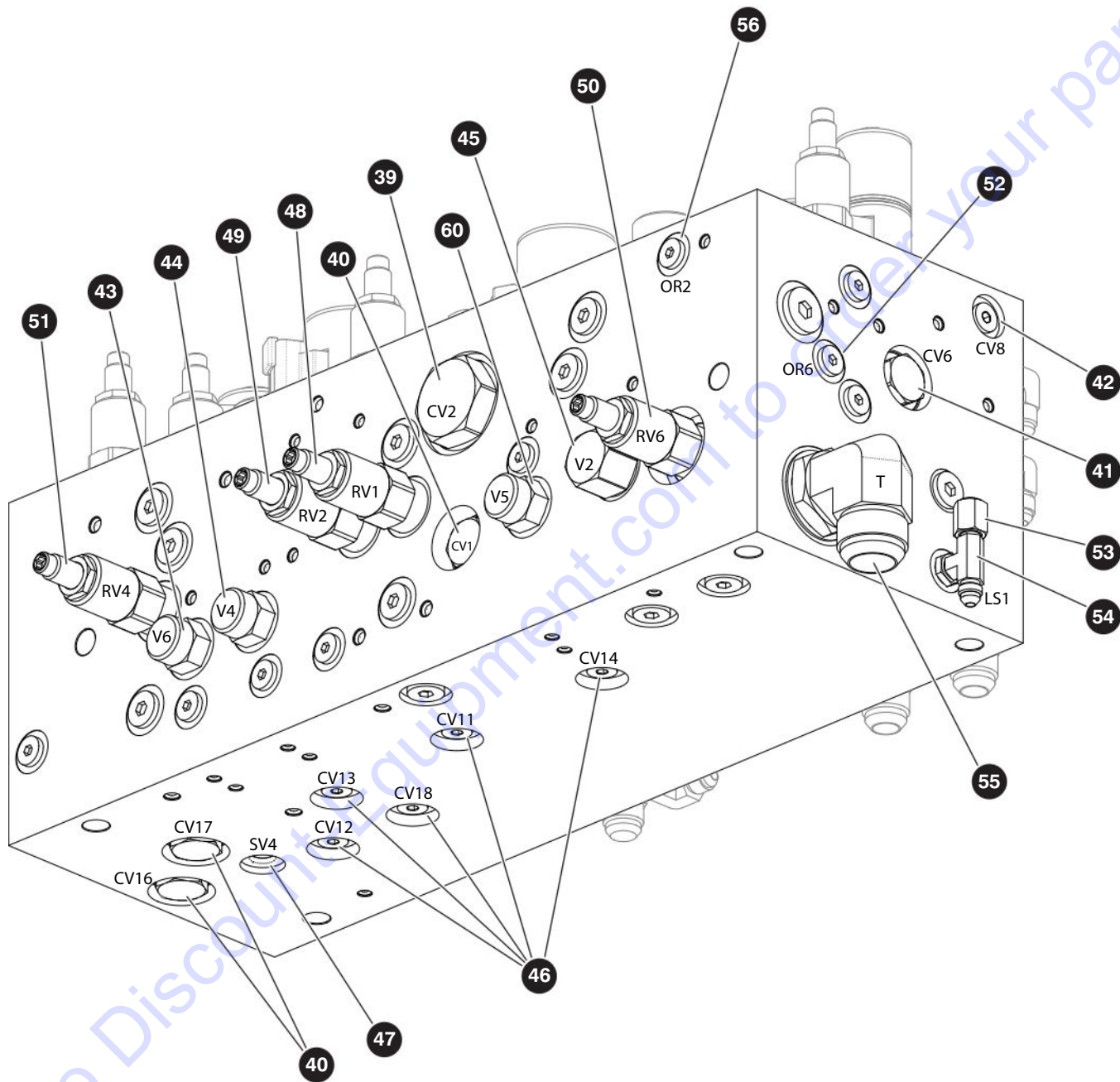


## 4.10 Main Manifold

Index No.	Skyjack Part No.	Qty.	Description
-	198103	1	MAIN MANIFOLD
1	212567	1	• BLOCK, Manifold
2	212548	1	• VALVE, Pressure reducing
3	199471	3	• VALVE, Check
4	197770	1	• VALVE, Check
5	166063	1	• VALVE, Flow control
6	212550	2	• VALVE, Flow control
7	212551	1	• VALVE, Flow control
8	166058	1	• VALVE, Flow control
9	168758	3	• VALVE, Solenoid
10	168756	1	• VALVE, Solenoid
11	159806	1	• VALVE, Electro-proportional
12	212554	8	• COIL, Solenoid "ER" (12 V DC, size 10)
13	212555	1	• VALVE, Electro-proportional
14	208875	1	• VALVE, Solenoid
15	102626	1	• VALVE, Solenoid
16	168755	1	• VALVE, Solenoid
17	159803	1	• VALVE, Solenoid
18	208881	2	• COIL, Solenoid "ER" (12 V DC, size 08)
19	159821	4	• COIL, Solenoid "ER/Z" (12 V DC, size 08)
20	171411	2	• DISC, Check valve (not shown)
21	166047	1	• VALVE, Relief
22	212558	1	• VALVE, Relief
23	125883	1	• FITTING, 90° (04JICM-04ORBM)
24	198233	2	• FITTING, 90° LL (8JICM-10ORBM)
25	139102	1	• FITTING, 90° LL (12JICM-16ORBM)
26	126366	1	• FITTING, 90° LL (04JICM-04ORBM)
27	162071	5	• FITTING, 90° LL (06JICM-06ORBM)
28	191857	2	• FITTING, 90° LL (10JICM-10ORBM)
29	132256	2	• FITTING, 90° (08JICM-10ORBM)
30	114578	4	• FITTING, 90° (06JICM-06ORBM)
31	702796	1	• FITTING, Plug - hollow hex (08ORBM) (not shown)
32	104437	2	• FITTING, Plug - hollow hex (06ORBM) (not shown)
33	121250	5	• FITTING, Plug - hollow hex (04ORBM) (not shown)
34	212559	1	• PLUG, Orifice (0.090")
35	166054	1	• VALVE, Shuttle
36	212549	1	• VALVE, Check
			<b>Parts list continued on the next page.</b>
-	148475	1	TEST PORT - <b>CE</b>
37	122420	1	• QUICK DISCONNECT
38	147553	1	• FITTING, Straight (04ORBM-06ORBF)



## 4.10 Main Manifold



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# PARTS FINDER

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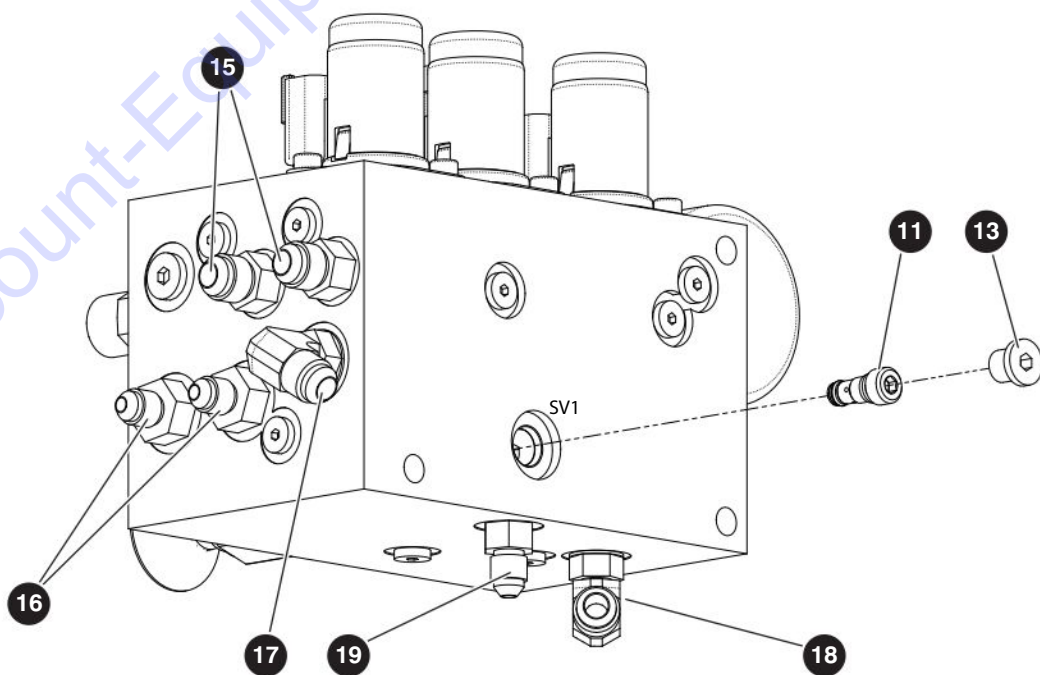
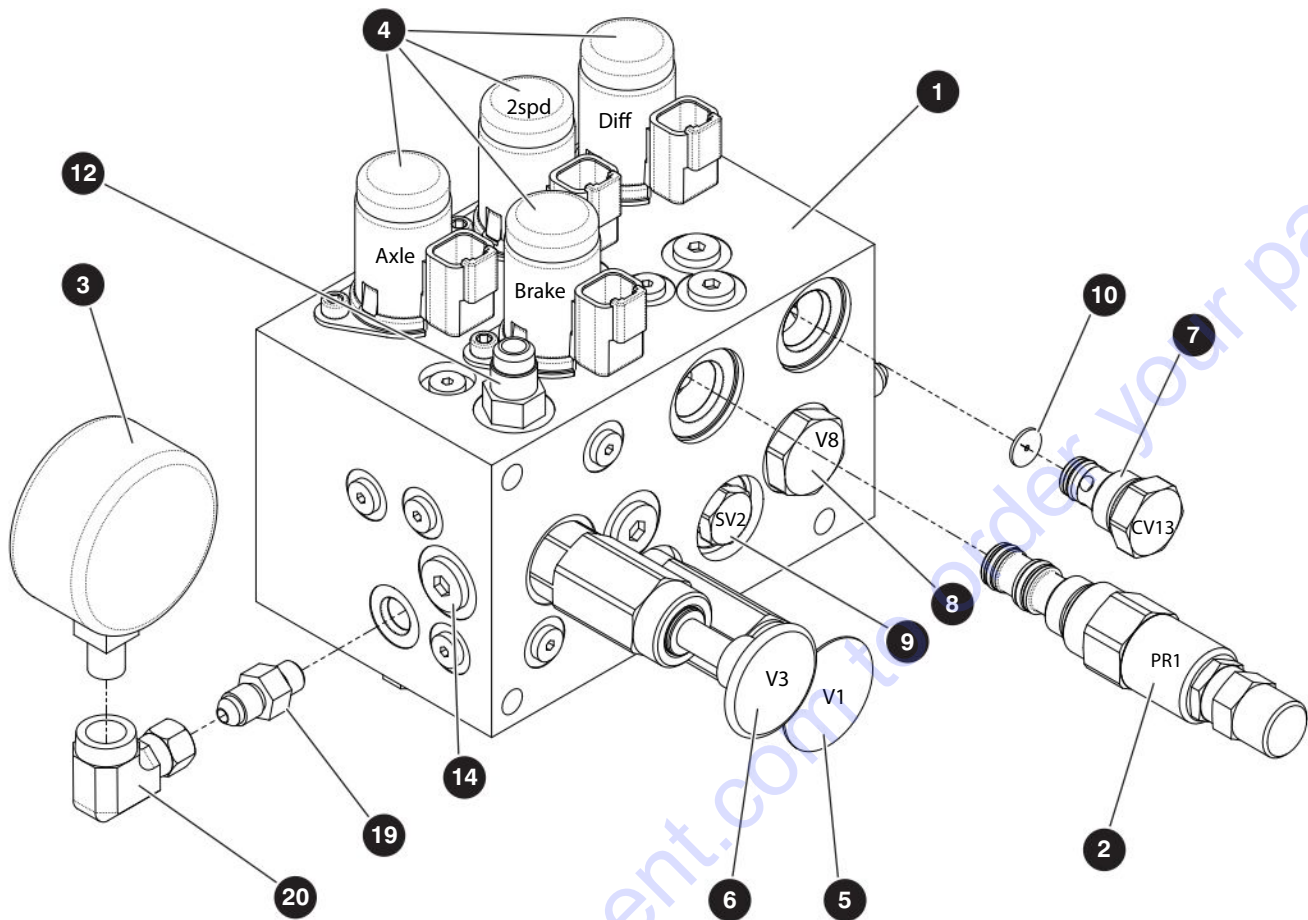
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## 4.10 Main Manifold

Index No.	Skyjack Part No.	Qty.	Description
<b>Parts list continued from the previous page.</b>			
39	171389	1	• VALVE, Check
40	159842	3	• VALVE, Check
41	199471	1	• VALVE, Check
42	197770	1	• VALVE, Check
43	212552	1	• VALVE, Directional
44	212553	1	• VALVE, Directional
45	223204	1	• VALVE, Directional
46	171412	5	• VALVE, Check
47	141414	1	• VALVE, Shuttle
48	168759	1	• VALVE, Relief
49	171428	1	• VALVE, Relief
50	212556	1	• VALVE, Relief
51	212557	1	• VALVE, Relief
52	171416	4	• PLUG, Orifice (0.020")
53	131286	1	• FITTING, Cap nut (04JICF)
54	149232	1	• FITTING, Branch tee (04JICM-04JICM-04ORBM)
55	707040	1	• FITTING, 90° (16 JICM-160RBM)
56	199475	1	• PLUG, Orifice (0.055")
57	702796	2	• FITTING, Plug - hollow hex (08ORBM) (not shown)
58	104437	12	• FITTING, Plug - hollow hex (06ORBM) (not shown)
59	121250	12	• FITTING, Plug - hollow hex (04ORBM) (not shown)
60	230202	1	• VALVE, Directional

## 4.11 Brake Manifold



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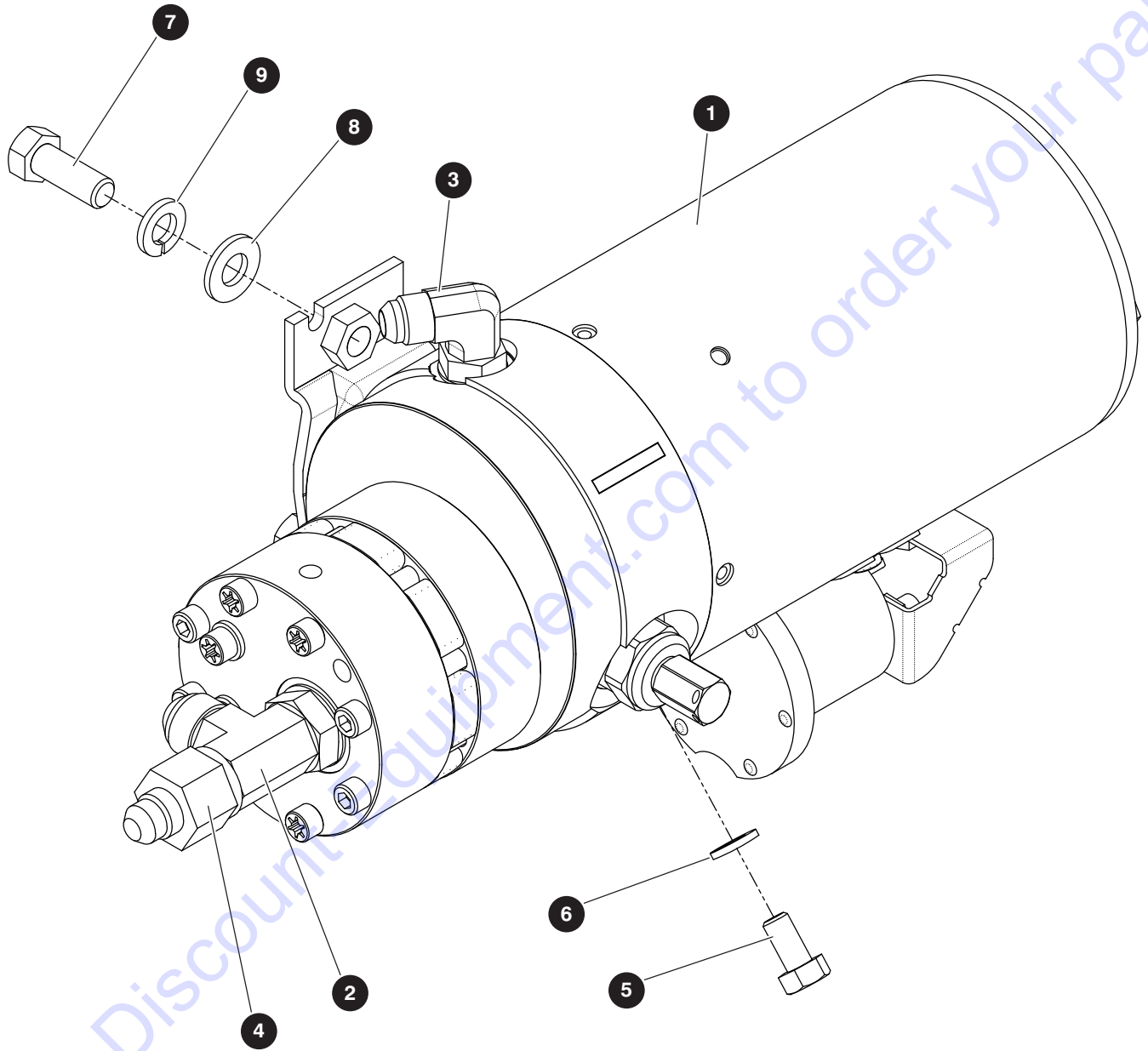
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SKYJACK

## 4.11 Brake Manifold

Index No.	Skyjack Part No.	Qty.	Description
-	198368	1	BRAKE MANIFOLD
1	211703	1	• BLOCK, Manifold
2	211704	1	• VALVE, Pressure reducing
3	703725	1	• GAUGE, 1000 psi
4	159827	4	• VALVE, Solenoid Cartridge
5	113752	1	• VALVE, Auto reset
6	159831	1	• PUMP, Hand
7	171413	1	• VALVE, Check
8	166053	1	• VALVE, Shuttle
9	166054	1	• VALVE, Shuttle
10	171420	1	• ORIFICE, Disk (0.073" dia)
11	141414	1	• VALVE, Shuttle
12	103069	1	• FITTING, Straight (06JICM-06ORBM)
13	121250	4	• FITTING, Plug (04ORBM)
14	104437	4	• FITTING, Plug (06ORBM)
15	128869	2	• FITTING, Straight (06JICM-04ORBM)
16	701956	2	• FITTING, Straight (04JICM-06ORBM)
17	114578	1	• FITTING, Elbow 90° (06JICM-06ORBM)
18	113348	1	• FITTING, Elbow 90° (06JICM-04ORBM)
19	126128	2	• FITTING, Straight (04JICM-04ORBM)
20	144728	1	• FITTING, Elbow 90° (04NPTM-04JICFSW)

## 4.12 Emergency Pump



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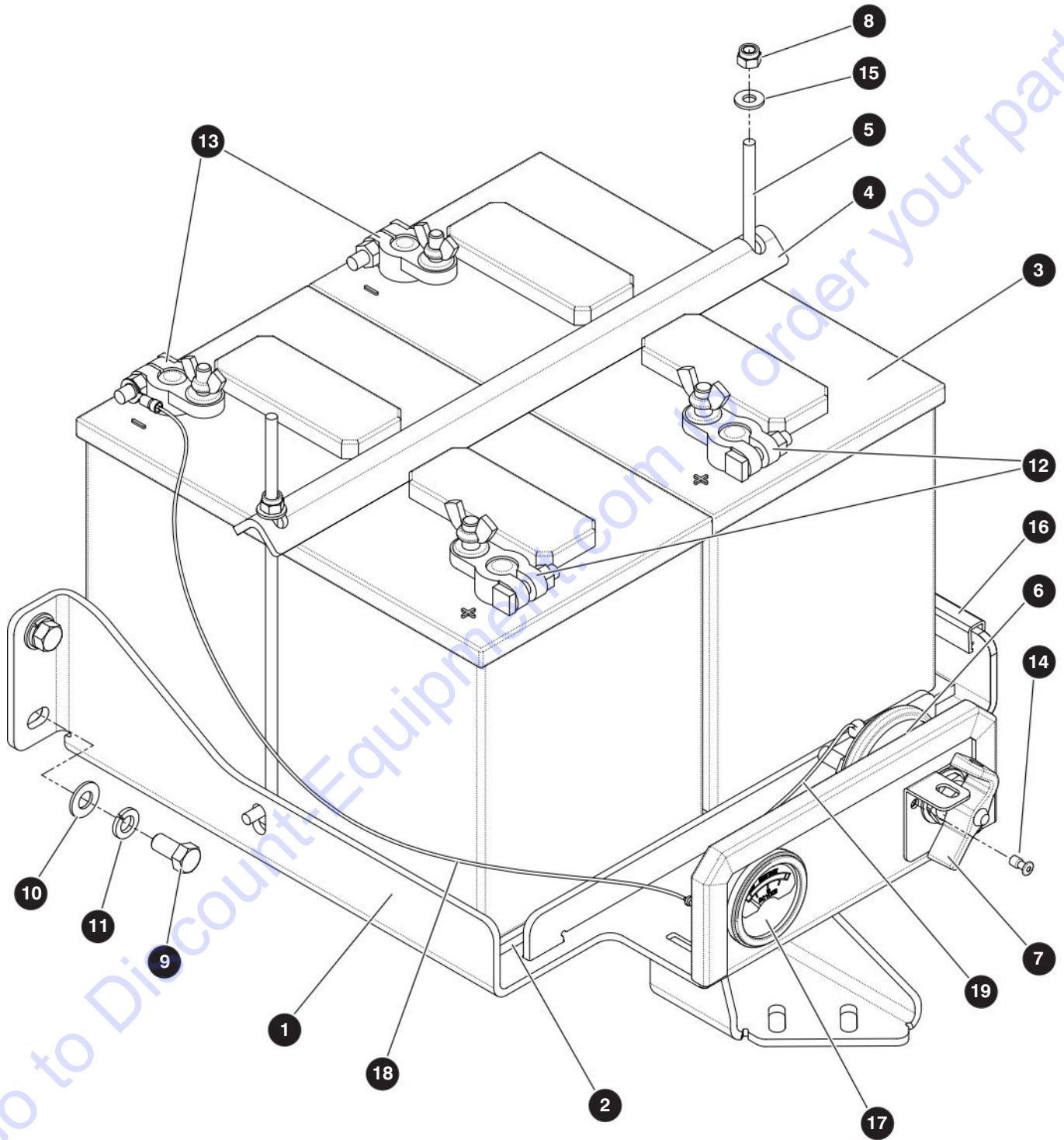
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## 4.12 Emergency Pump

Index No.	Skyjack Part No.	Qty.	Description
-	198220	1	EMERGENCY PUMP
1	198009	1	• PUMP, Emergency
	213009	1	• • MOTOR
	168898	1	• • CONTACTOR, Solenoid
	170714	1	• • PUMP
	209058	1	• • VALVE, Relief
2	110554	1	• FITTING, Run tee (08JICM-08ORBM-08JICM)
3	114578	1	• FITTING, Elbow 90° (06JICM-06ORBM)
4	110498	1	• FITTING, Straight (08JICF-06JICM)
5	148331	1	• BOLT, Hex head (0.312"-18 x 0.625" gr 5)
6	103404	1	• WASHER, Lock (0.312")
7	103473	2	• BOLT, Hex head (0.375"-16 X 1.00" gr 5)
8	125959	2	• WASHER, Flat (0.375" hard)
9	103999	2	• WASHER, Lock (0.375")



## 4.13 Batteries



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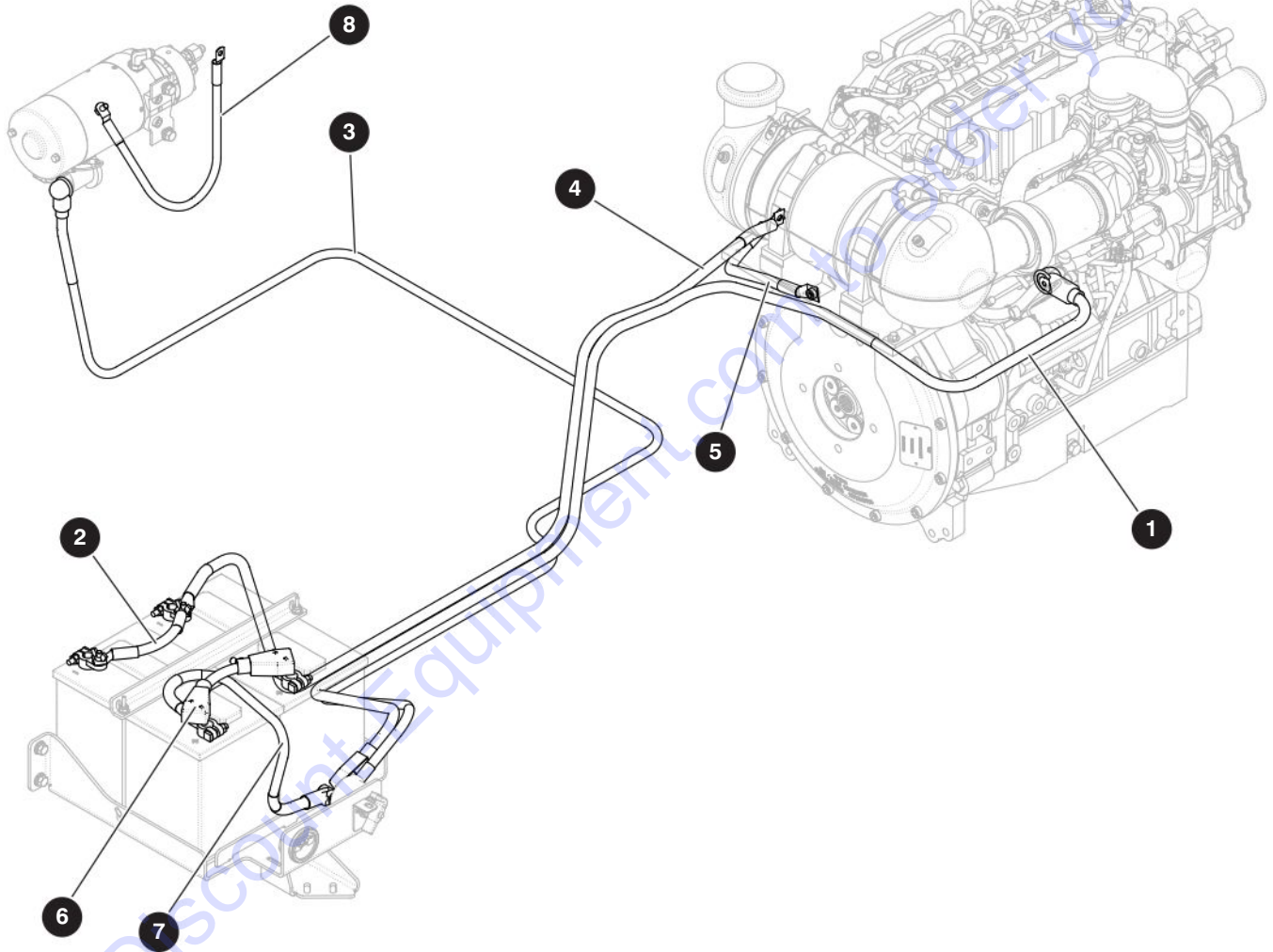
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## 4.13 Batteries

Index No.	Skyjack Part No.	Qty.	Description
-	198002	1	BATTERY ASSEMBLY
1	198003	1	• TRAY, Battery
2	195744	1	• NEOPRENE SHEET (0.25" x 12" x 14")
3	103295	2	• BATTERY, 12V (wet)
4	150959	1	• BRACKET, Battery retainer
5	128572	1	• J-HOOK
6	119725	1	• SWITCH, Main lockout
7	108714	1	• MOUNT, Lockout switch
8	115649	2	• NUT, Lock (0.25"-20 gr 5 nylon)
9	101632	4	• BOLT, Hex head (0.375"-16 x 0.75" gr 5)
10	103472	4	• WASHER, Flat (0.375")
11	103999	4	• WASHER, Lock (0.375")
12	128619	2	• MARINE, Top post to 0.375" stud - positive
13	128620	2	• MARINE, Top post to 0.3125" stud - negative
14	157166	2	• RIVET, Pop (0.156" x 0.415")
15	103995	2	• WASHER, Flat (0.25")
16	117398	20"	• TRIM, Protective
-	212183	1	BATTERY CHARGE INDICATOR - <b>CE only</b>
17	152323	1	• INDICATOR, Battery charge
18	152344	1	• WIRE, Charge indicator (00)
19	152345	1	• WIRE, Charge indicator (03)

## 4.14 Battery Cables



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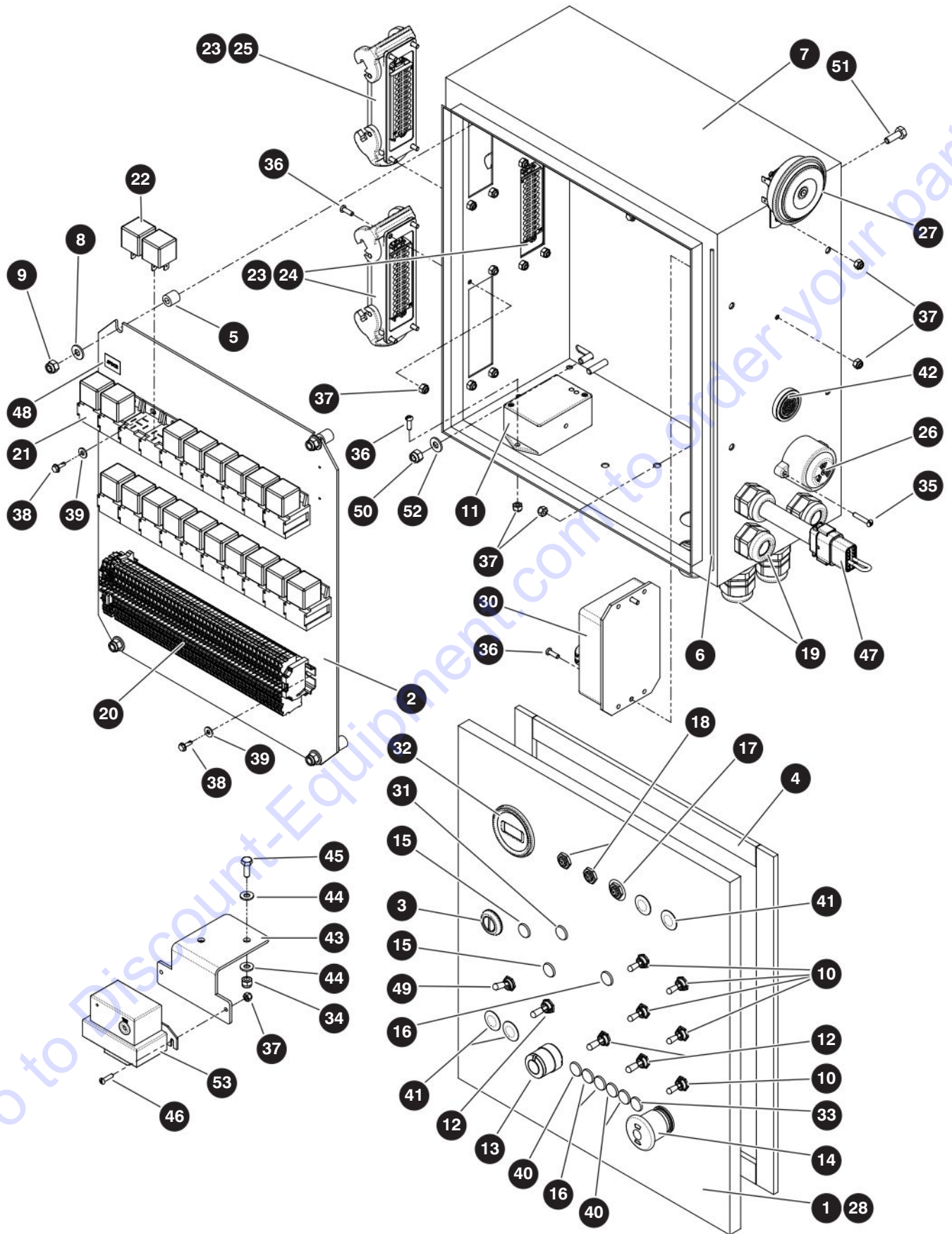
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## 4.14 Battery Cables

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	198142	1	BATTERY CABLES - <b>Deutz TD2.9L, Deutz TCD2.2, Kubota</b>
<b>B</b>	198444	1	BATTERY CABLES - <b>Deutz D2011</b>
1	198138	1	• CABLE, Battery (103") - main power disconnect switch to starter, <b>A</b>
	198443	1	• CABLE, Battery (85") - main power disconnect switch to starter, <b>B</b>
2	168752	1	• CABLE, Battery (6.5") - battery 1 (-) to battery 2 (-)
3	198139	1	• CABLE, Battery (115") - main power disconnect switch to e-pump
4	198140	1	• CABLE, Battery (74") - battery 2 (-) to turret ground
5	138389	1	• CABLE, Battery (23") - flywheel housing ground to turret ground
6	168751	1	• CABLE, Battery (6.5") - battery 1 (+) to battery 2 (+)
7	198141	1	• CABLE, Battery (18") - battery 1 (+) to main power disconnect switch
8	122435	1	• CABLE, Battery (24") - e-pump ground to turret ground

# 4.15 Base Controls



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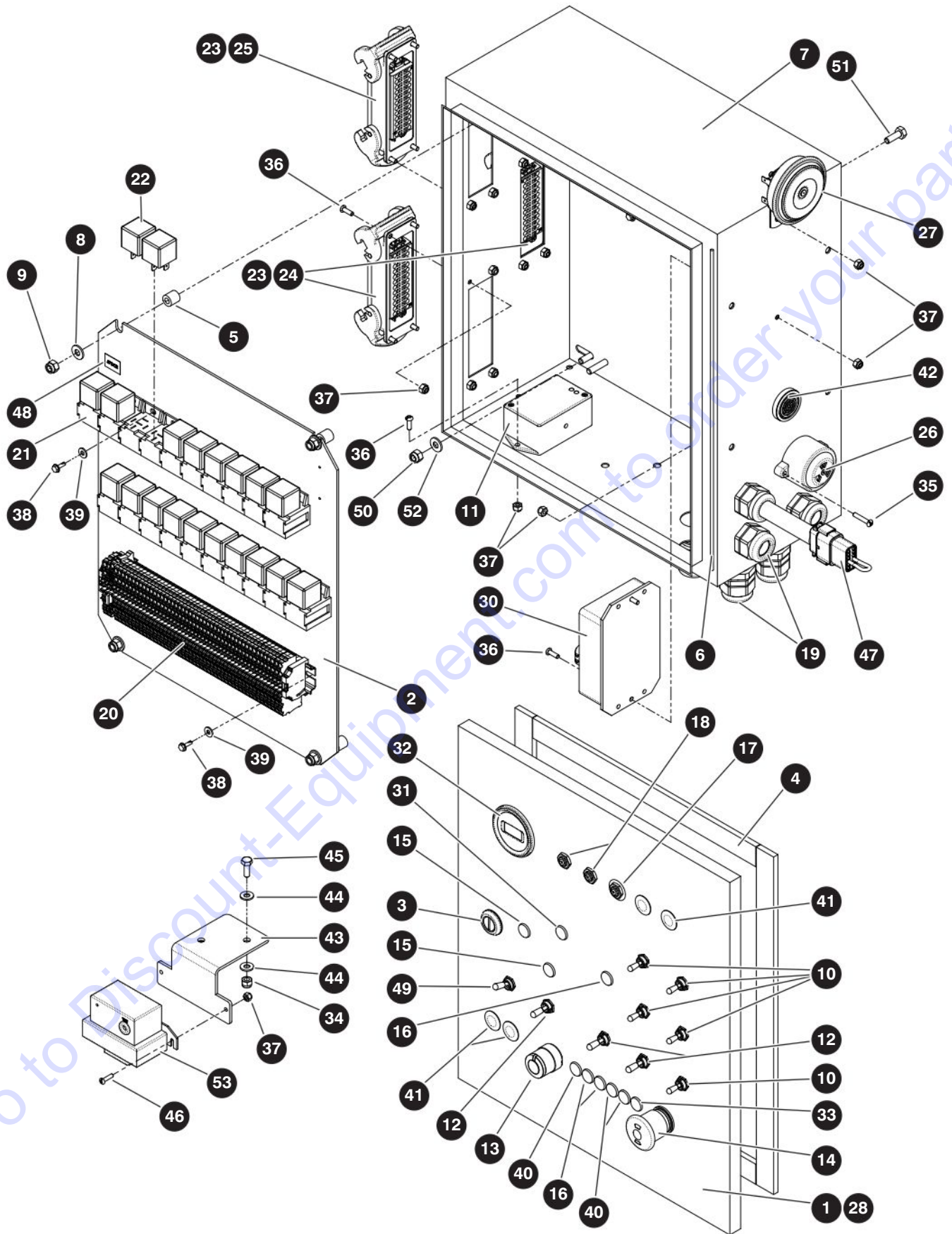
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## 4.15 Base Controls

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	218314	1	BASE CONTROL BOX - <b>ANSI/CSA and AS</b>
<b>B</b>	218316	1	BASE CONTROL BOX - <b>ANSI/CSA with Positive Air Shut-off Option</b>
<b>C</b>	198359	1	BASE CONTROL BOX - <b>CE with Deutz TD2.9L, Deutz D2011 or Kubota</b>
<b>D</b>	228205	1	BASE CONTROL BOX - <b>CE with Deutz TCD2.2</b>
-	198351	1	• BASE CONTROL BOX SUBASSEMBLY
1	198353	1	• • DOOR, Control box
2	171504	1	• • PANEL, control box
3	138715	1	• • LATCH, Slotted door
4	138723	1	• • WEATHER STRIP, Cut
5	138724	4	• • STANDOFF, Nylon (0.26" ID x 0.50" lg)
6	138714	1	• • HINGE, Continuous steel
7	198454	1	• • BODY, Base control box
8	103995	4	• • WASHER, Flat 0.25"
9	115649	4	• • NUT, Lock (0.25"-20 gr 5 nylon)
10	102853	5	• SWITCH, Toggle (1NT1-7), <b>A, C, D</b>
	102853	6	• SWITCH, Toggle (1NT1-7), <b>B</b>
11	149426	1	• TRANSDUCER, Angle - dual axis
12	138278	3	• SWITCH, Toggle (2NT1-7)
13	164949	1	• SWITCH, Key, <b>A, B,</b>
	165828	1	• SWITCH, Key, <b>C, D</b>
	147056	1	• • LATCH, Mounting
	166141	1	• • BLOCK, NO Contact (black plunger)
	166142	1	• • BLOCK, NC Contact (yellow plunger)
	149605	1	• • SWITCH HEAD, Selector, <b>A, B</b>
	165829	1	• • SWITCH HEAD, Selector, <b>C, D</b>
14	144652	1	• SWITCH, E-stop
	147056	1	• • LATCH, Mounting
	166141	1	• • BLOCK, NO Contact (black plunger)
	166142	1	• • BLOCK, NC Contact (yellow plunger)
	149605	1	• • SWITCH HEAD, Selector
15	171501	2	• LIGHT, Indicator - 14 V green
16	164832	3	• LIGHT, Indicator - 12 V red, <b>A, C, D</b>
	164832	4	• LIGHT, Indicator - 12 V red, <b>B</b>
17	117326	1	• BREAKER, Circuit - 20 AMP
18	117325	2	• BREAKER, Circuit - 15 AMP
19	116266	7	• RELIEF, Strain (PG21), <b>A, C</b>
	116266	8	• RELIEF, Strain (PG21), <b>B, D</b>
20	(Ref.)	1	• TERMINAL STRIP, Base Controls (For components, refer to 4.16 Base Terminal Strip - ANSI/CSA & AS) (For components, refer to 4.17 Base Terminal Strip - CE)

# 4.15 Base Controls



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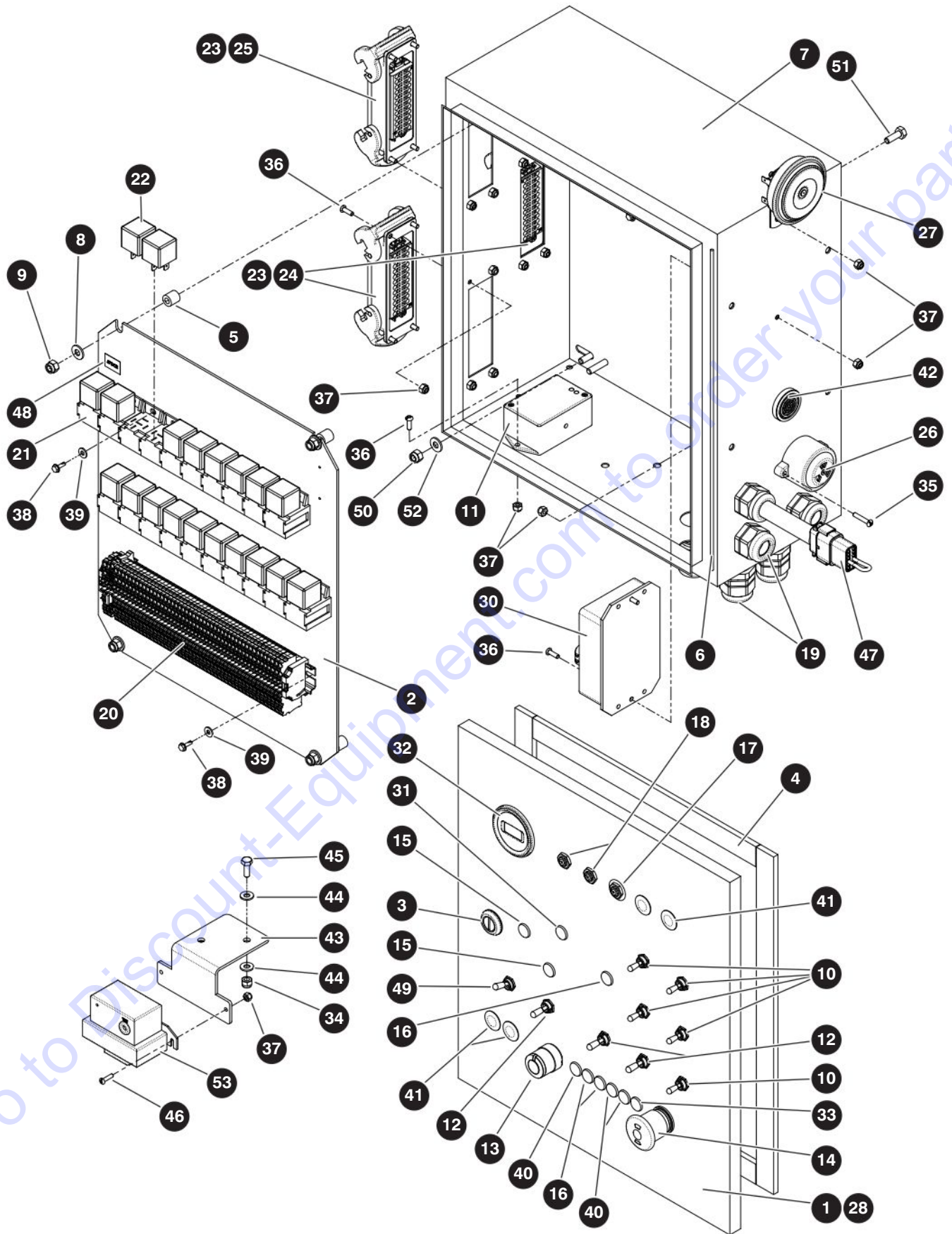
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## 4.15 Base Controls

Index No.	Skyjack Part No.	Qty.	Description
21	138749	19	• SOCKET, Relay, <b>A, B, C</b>
	138749	21	• SOCKET, Relay, <b>D</b>
22	127131	19	• RELAY, 12V 40 AMP, <b>A, B, C</b>
	127131	19	• RELAY, 12V 40 AMP, <b>D</b>
23	138751	3	• HOUSING, Open bottom - 24 pole levered
24	138756	2	• SOCKET, 24 Pole spring 16A
25	138755	1	• PLUG, 24 pole spring 16A
26	103056	1	• BEEPER, 7.5 - 16 VDC
27	146652	1	• HORN, Low tone - 12V
28	(Ref.)	1	• LABEL ASSEMBLY, Base controls (For components, refer to 10.2 Labels - Controls Side)
29	218340	1	• WIRING DIAGRAM, Base (not shown), <b>A</b>
	218341	1	• WIRING DIAGRAM, Base (not shown), <b>B</b>
	198355	1	• WIRING DIAGRAM, Base (not shown), <b>C</b>
	224593	1	• WIRING DIAGRAM, Base (not shown), <b>D</b>
	102921	14	• • DIODE, T6A40L
	129258	1	• • DIODE, 1N4007, <b>D</b>
	139088	1	• • RESISTOR, 6 ohm 25 W
	171987	2	• • RESISTOR, 1 ohm 1/4 W
	110999	1	• • RESISTOR, 5 ohm 25 W
	168783	1	• • RESISTOR, 4 ohm 25 W, <b>B</b>
	114523	1	• • RESISTOR, 7 ohm 25 W
30	167280	1	• MODULE, Dual capacity sensing
31	171502	1	• LIGHT, Indicator - 14 V amber
32	195940	1	• HOUR METER, <b>A, B</b>
	170787	1	• HOUR METER/COUNTER, <b>C, D</b>
33	164831	1	• LIGHT, Indicator - 12 V green
34	115649	4	• NUT, Lock (0.25"-20 gr 5 nylon), <b>A, C</b>
	115649	6	• NUT, Lock (0.25"-20 gr 5 nylon), <b>B</b>
35	126499	2	• SCREW, Round head machine (8-32 x 0.875")
36	103957	18	• SCREW, Round head machine (8-32 x 0.50")
37	138765	20	• NUT, Lock (8-32 gr 5 nylon)
38	112327	7	• BOLT, Self-tapping (#8-18 x 0.50"), <b>A, C</b>
	112327	10	• BOLT, Self-tapping (#8-18 x 0.50"), <b>B</b>
39	103991	7	• WASHER, Flat (#8), <b>A, C</b>
	103991	8	• WASHER, Flat (#8), <b>B</b>
40	133133	3	• LIGHT, Indicator - 12 V amber
41	139127	4	• PLUG, Hole (0.50" dia), <b>A, C, D</b>
	139127	2	• PLUG, Hole (0.50" dia), <b>B</b>
	164832	1	• LIGHT, Indicator - 12 V red, <b>B</b>

# 4.15 Base Controls



M226363AB

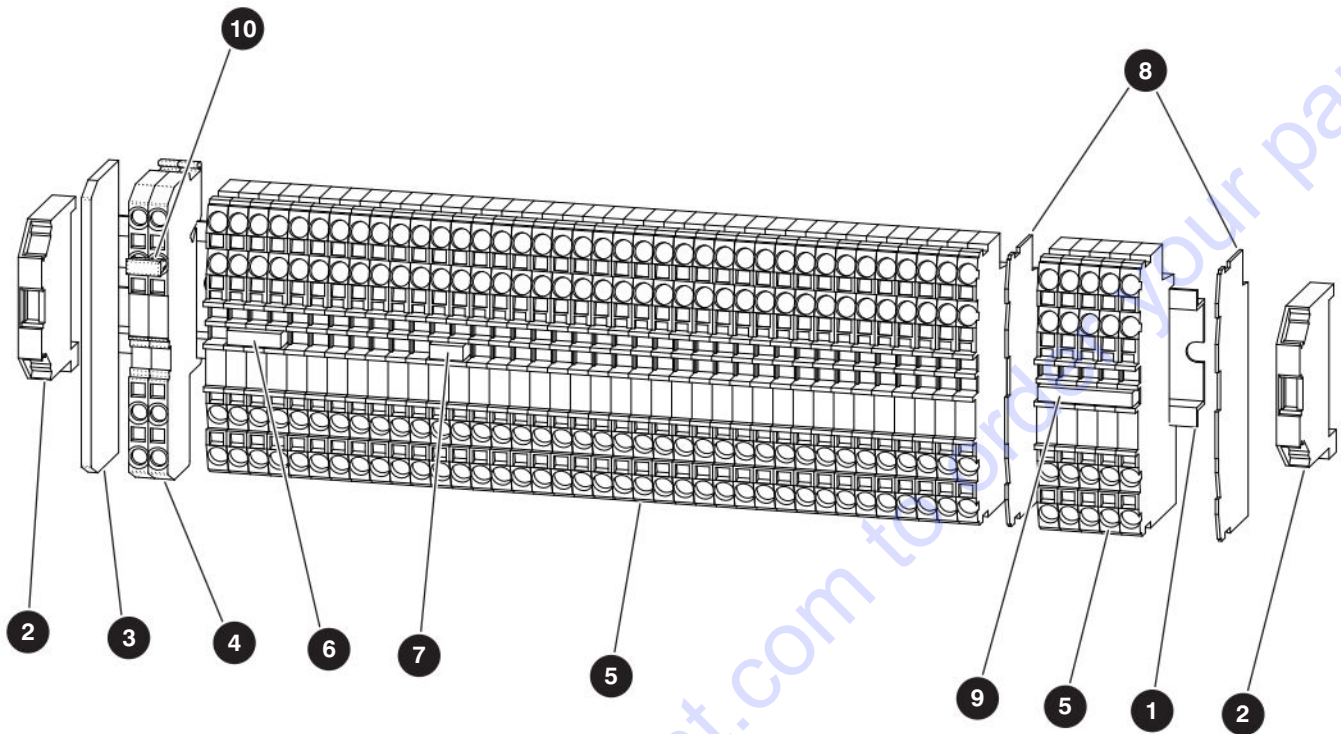
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## 4.15 Base Controls

Index No.	Skyjack Part No.	Qty.	Description
42	144387	1	• ALARM, Continuous tone, <b>A, B</b>
	131938	1	• PLUG, Hole (1.125" dia), <b>C, D</b>
43	169666	1	• HOLDER, RL5 - positive air option, <b>B</b>
44	103995	4	• WASHER, Flat (0.25"), <b>B</b>
45	103856	2	• BOLT, Hex head (0.25"-20 x 0.75" gr 5), <b>B</b>
46	116192	2	• SCREW, Round head machine (8-32 x 0.625"), <b>B</b>
47	221144	1	• HARNESS, Elevate Trackunit telematics bypass (not shown)
48	221150	1	• LABEL, 57DCR
49	144266	1	• SWITCH, Toggle
50	115649	4	NUT, Lock (0.25"-20 gr 5 nylon)
51	103856	4	BOLT, Hex head (0.25"-20 x 0.75" gr 5)
52	103995	4	WASHER, Flat (0.25")
53	(Ref.)	1	LIMITER, Positive air shut-off (not shown) (For components, refer to 9.20 Positive Air Shut-off Option)

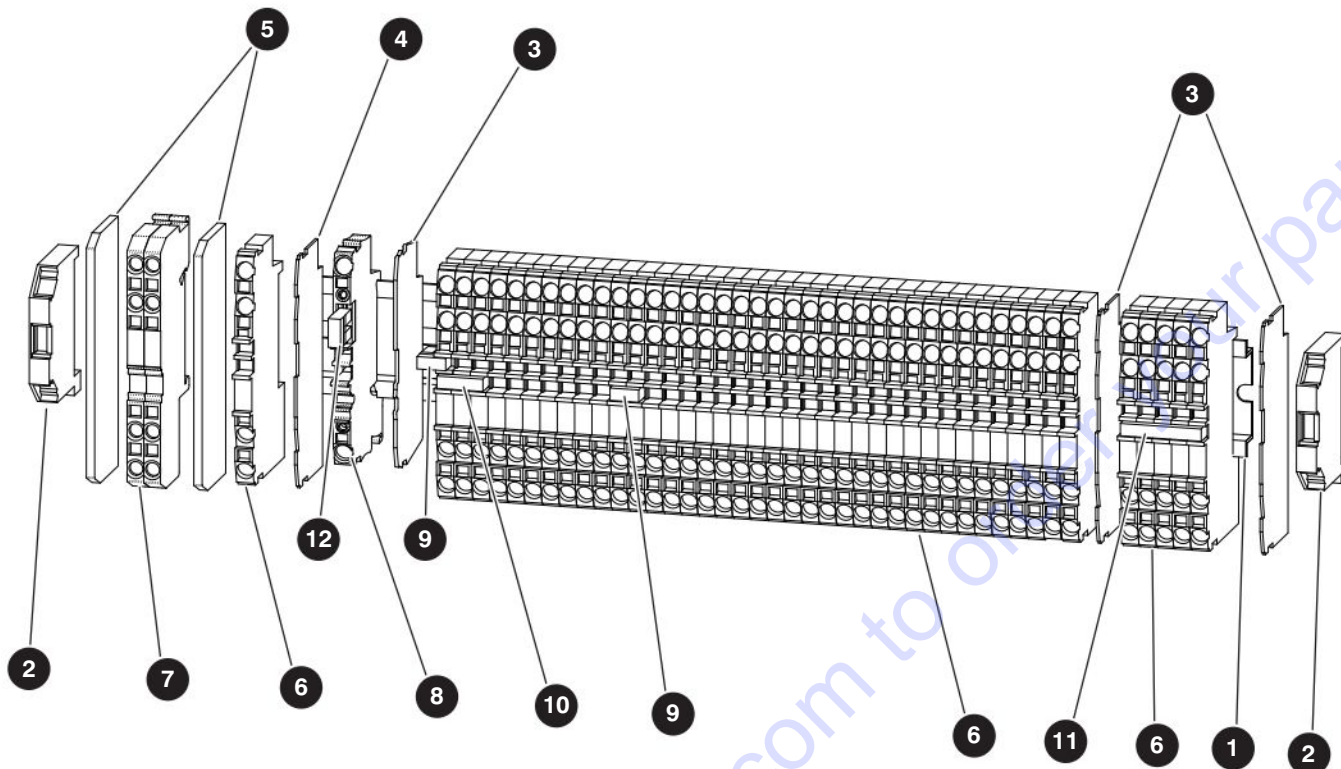
## 4.16 Base Terminal Strip - ANSI/CSA & AS



M198126AB

Index No.	Skyjack Part No.	Qty.	Description
-	198126	1	TERMINAL STRIP, Base - <b>ANSI/CSA &amp; AS</b>
1	102874	11"	• RAIL, DIN (280 mm)
2	707147	2	• STOP, End
3	707146	1	• PLATE, End/intermediate
4	707145	2	• TERMINAL BLOCK (4 cond through with diode)
5	137940	45	• TERMINAL BLOCK (4 cond through)
6	137943	1	• JUMPER, 3-pin
7	137942	1	• JUMPER, 2-pin
8	137941	2	• PLATE, End
9	170928	1	• JUMPER, 5-pin
10	212825	1	• JUMPER, 2-pin (comb)

## 4.17 Base Terminal Strip - CE

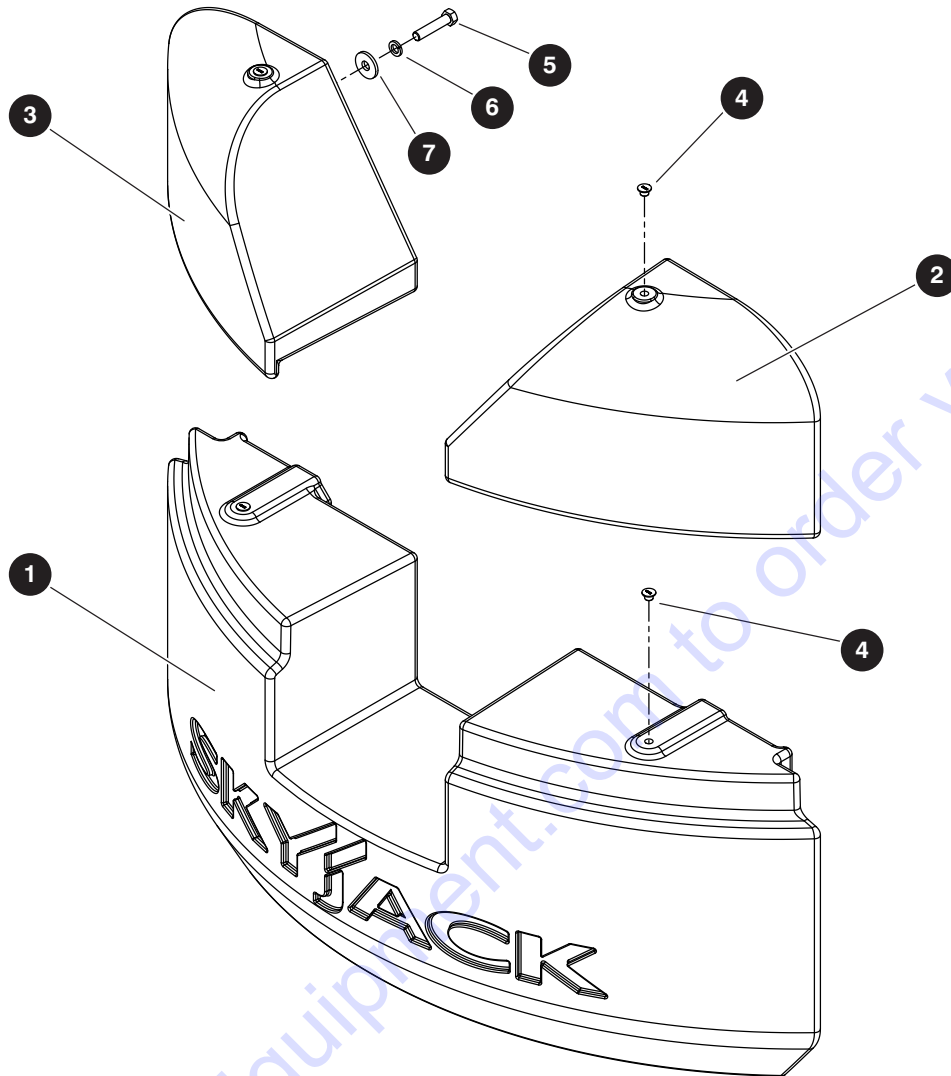


M198358AB

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	198358	1	TERMINAL STRIP, Base - <b>CE with Deutz D2011</b>
<b>B</b>	224647	1	TERMINAL STRIP, Base - <b>CE with Deutz TCD2.2</b>
1	102874	11"	<ul style="list-style-type: none"> <li>RAIL, DIN (280 mm)</li> </ul>
2	707147	2	<ul style="list-style-type: none"> <li>STOP, End</li> </ul>
3	137941	3	<ul style="list-style-type: none"> <li>PLATE, End/intermediate (0.8 mm)</li> </ul>
4	170606	1	<ul style="list-style-type: none"> <li>PLATE, End/intermediate (1 mm)</li> </ul>
5	707146	2	<ul style="list-style-type: none"> <li>PLATE, End/intermediate (2.5 mm)</li> </ul>
6	137940	43	<ul style="list-style-type: none"> <li>TERMINAL BLOCK (4 cond through), <b>A</b></li> </ul>
	137940	46	<ul style="list-style-type: none"> <li>TERMINAL BLOCK (4 cond through), <b>B</b></li> </ul>
7	707145	2	<ul style="list-style-type: none"> <li>TERMINAL BLOCK (4 cond with diode)</li> </ul>
8	170607	1	<ul style="list-style-type: none"> <li>TERMINAL BLOCK (2 cond with fuse)</li> </ul>
9	137942	2	<ul style="list-style-type: none"> <li>JUMPER, 2-pin</li> </ul>
10	137943	1	<ul style="list-style-type: none"> <li>JUMPER, 3-pin</li> </ul>
11	170928	1	<ul style="list-style-type: none"> <li>JUMPER, 5-pin</li> </ul>
12	170626	1	FUSE, ATM - 10A



## 4.18 Counterweight - Turret

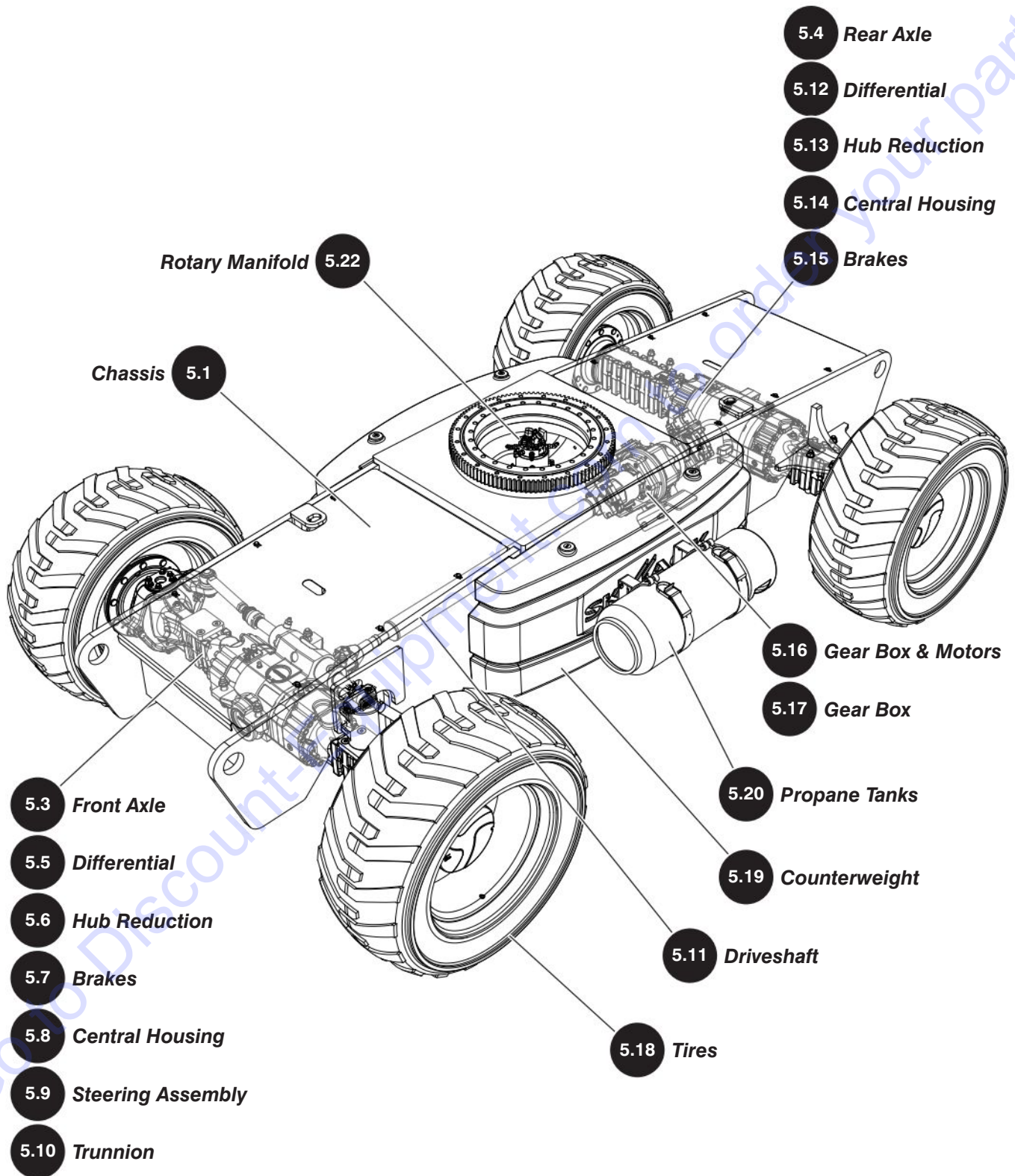


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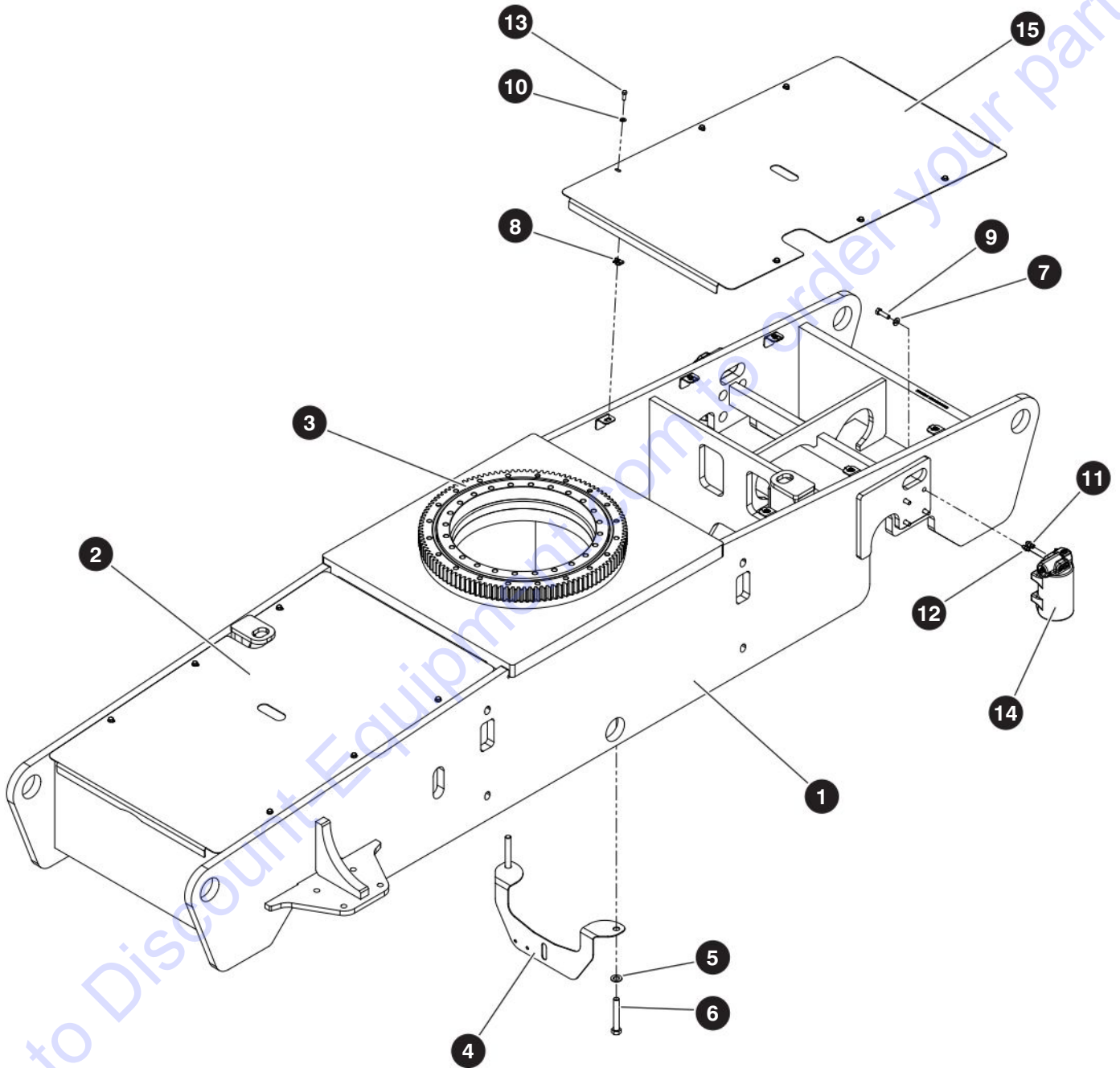
Index No.	Skyjack Part No.	Qty.	Description
-	197790	1	TURRET COUNTERWEIGHT
1	197791	1	• COUNTERWEIGHT, Bottom
2	197792	1	• COUNTERWEIGHT, Top left
3	197793	1	• COUNTERWEIGHT, Top right
4	144105	4	• PLUG, Threaded hole (0.75")
5	212320	10	• BOLT, Hex head (0.75"-10 x 3.00" gr 8)
6	104002	10	• WASHER, Lock (0.75")
7	702194	10	• WASHER, Flat (0.75" hard)



# Section 5 – Base



## 5.1 Chassis



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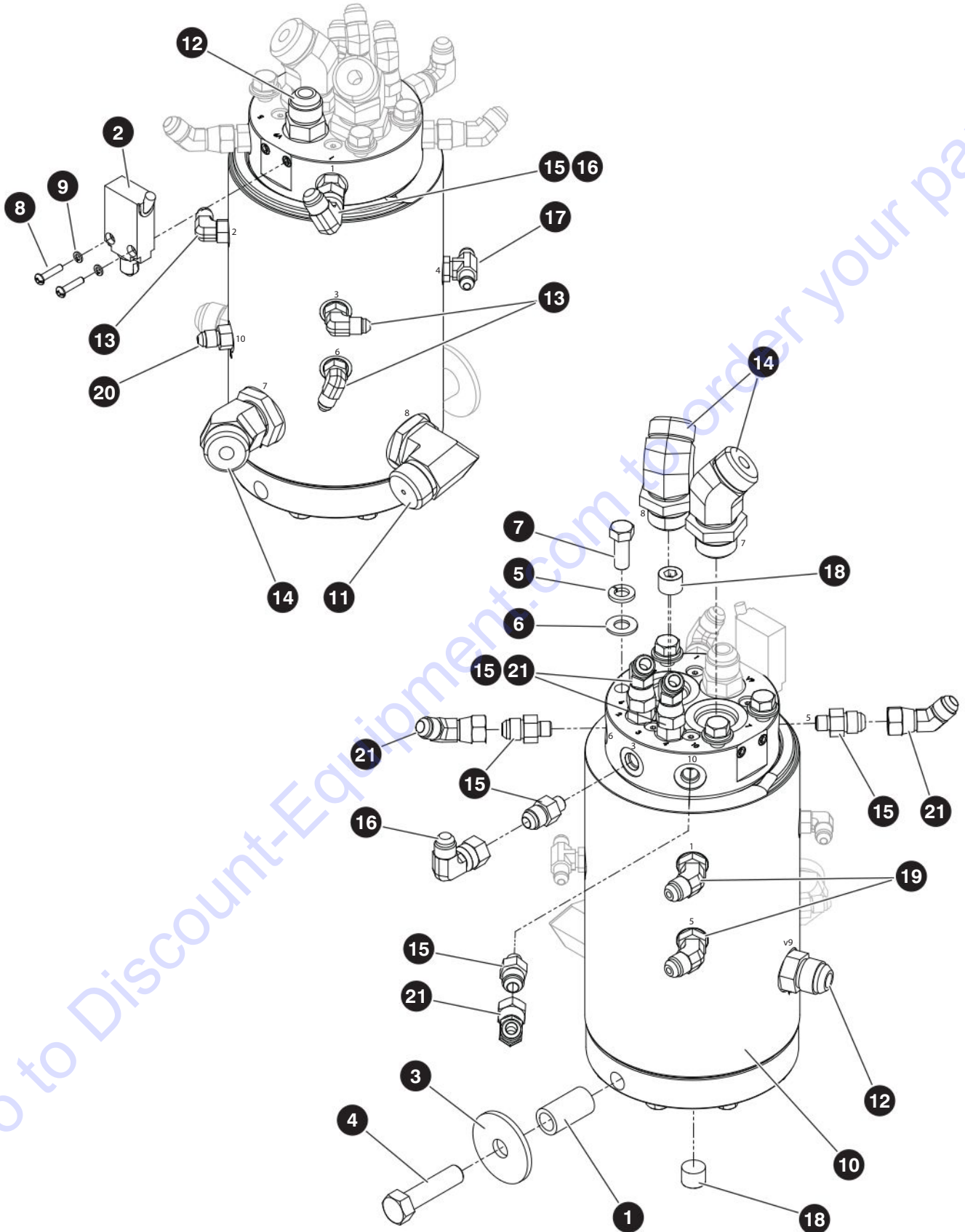
SJ85 AJ

SKYJACK

## 5.1 Chassis

Index No.	Skyjack Part No.	Qty.	Description
-	198054	1	CHASSIS ASSEMBLY
1	198055	1	• CHASSIS
2	198079	1	• COVER, Chassis - rear
3	216504	1	• GEAR, Ring
4	167826	1	• RETAINER, Rotary manifold
5	702194	20	• WASHER, Flat (0.750" hard)
6	146773	20	• BOLT, Hex head (0.75"-10 x 5.00" gr 8)
7	104379	8	• WASHER, Flat (0.50" hard)
8	159294	12	• NUT, Speed clip (0.375"-16)
9	126361	8	• BOLT, Hex head (0.50"-13 x 1.75" gr 8)
10	125959	12	• WASHER, Flat (0.375" hard)
11	103069	2	• FITTING, Straight (06JICM-06ORBM)
12	126128	2	• FITTING, Straight (04JICM-04ORBM)
13	103473	12	• BOLT, Hex head (0.375"-16 x 1.00" gr 5)
14	(Ref.)	2	• CYLINDER, Axle lock (For components, refer to 3.7 Axle Lock Cylinder)
15	212325	1	• COVER, Chassis - front

## 5.2 Rotary Manifold

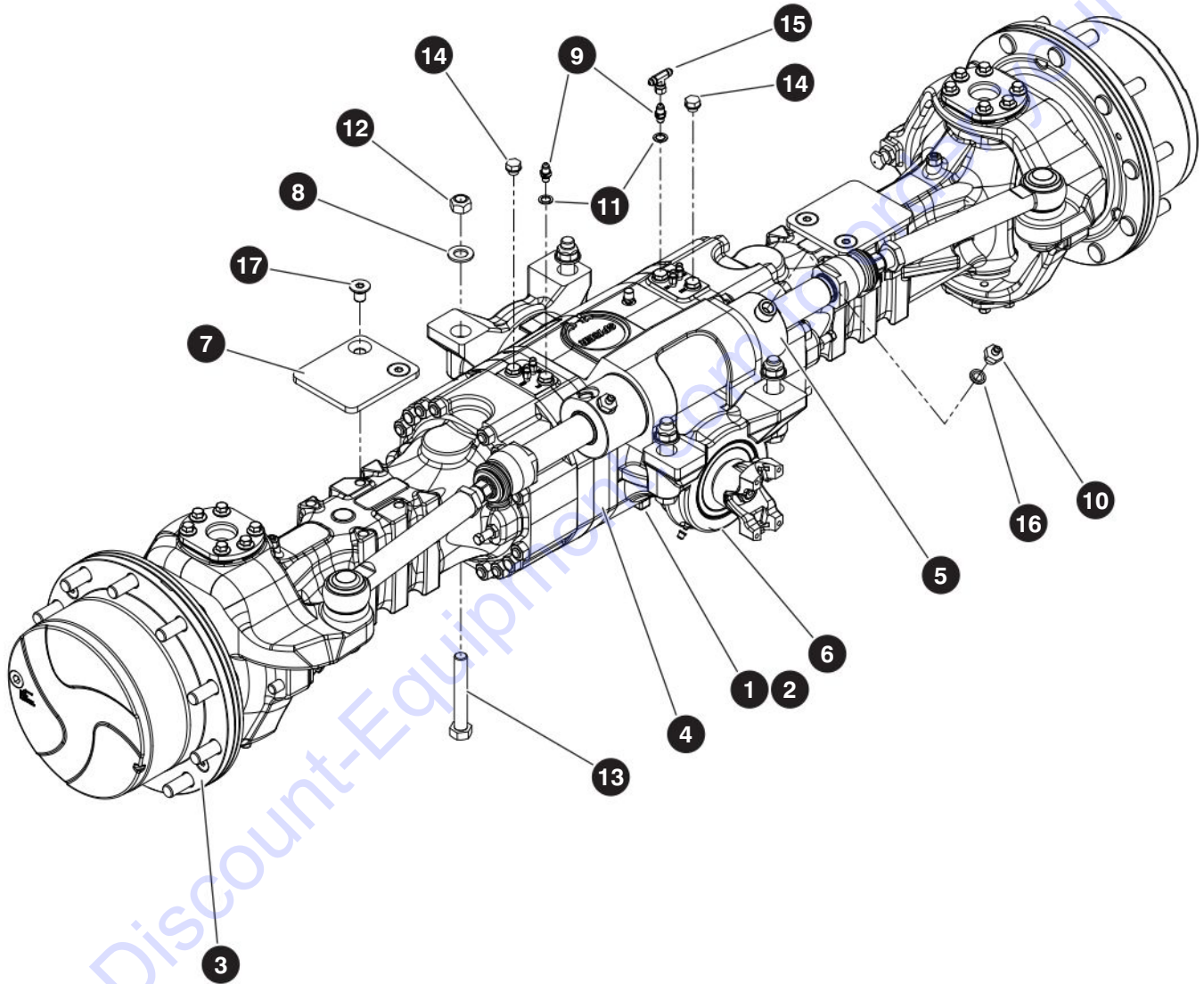


## 5.2 Rotary Manifold

Index No.	Skyjack Part No.	Qty.	Description
-	198183	1	ROTARY MANIFOLD
1	138956	1	• SPACER, Rotary manifold
2	199546	1	• SWITCH, Limit - roller plunger (7 m)
3	212939	1	• WASHER, Flat (0.50" hard)
4	103904	1	• BOLT, Hex head (0.50"-13 x 2.00" gr 5)
5	103999	4	• WASHER, Lock (0.375")
6	103472	4	• WASHER, Flat (0.375")
7	103473	4	• BOLT, Hex head (0.375"-16 x 1.00" gr 5)
8	103958	2	• SCREW, Round head machine (8-32 x 0.75")
9	112249	2	• WASHER, Lock (#8)
-	198437	1	• ROTARY MANIFOLD ASSEMBLY
10	149380	1	• • MANIFOLD, Rotary (10 ports)
	154659	1	• • • SEAL KIT, Rotary manifold
11	168654	1	• • FITTING, Elbow 90° (12FSM-12 ORBM)
12	147535	2	• • FITTING, Straight (10JICM-08ORBM)
13	125883	3	• • FITTING, Elbow 90° (06MJ-04MB)
14	149175	3	• • FITTING, Elbow 45° (12ORFSM-12ORBM)
15	128869	7	• • FITTING, Straight (06JIC-04ORBM)
16	702761	2	• • FITTING, Elbow 90° (06JICM-06JICFSW)
17	132463	1	• • FITTING, Tee (04MJ-04MB0-4MJ)
18	139171	2	• • FITTING, Plug - hex (06NPTM)
19	701478	2	• • FITTING, Elbow 45° (06JICM-04ORBM)
20	126128	1	• • FITTING, Straight (04JIC-04ORBM)
21	161083	5	• • FITTING, Elbow 45° (06JICM-06JICFS)



## 5.3 Front Axle



M162152AC

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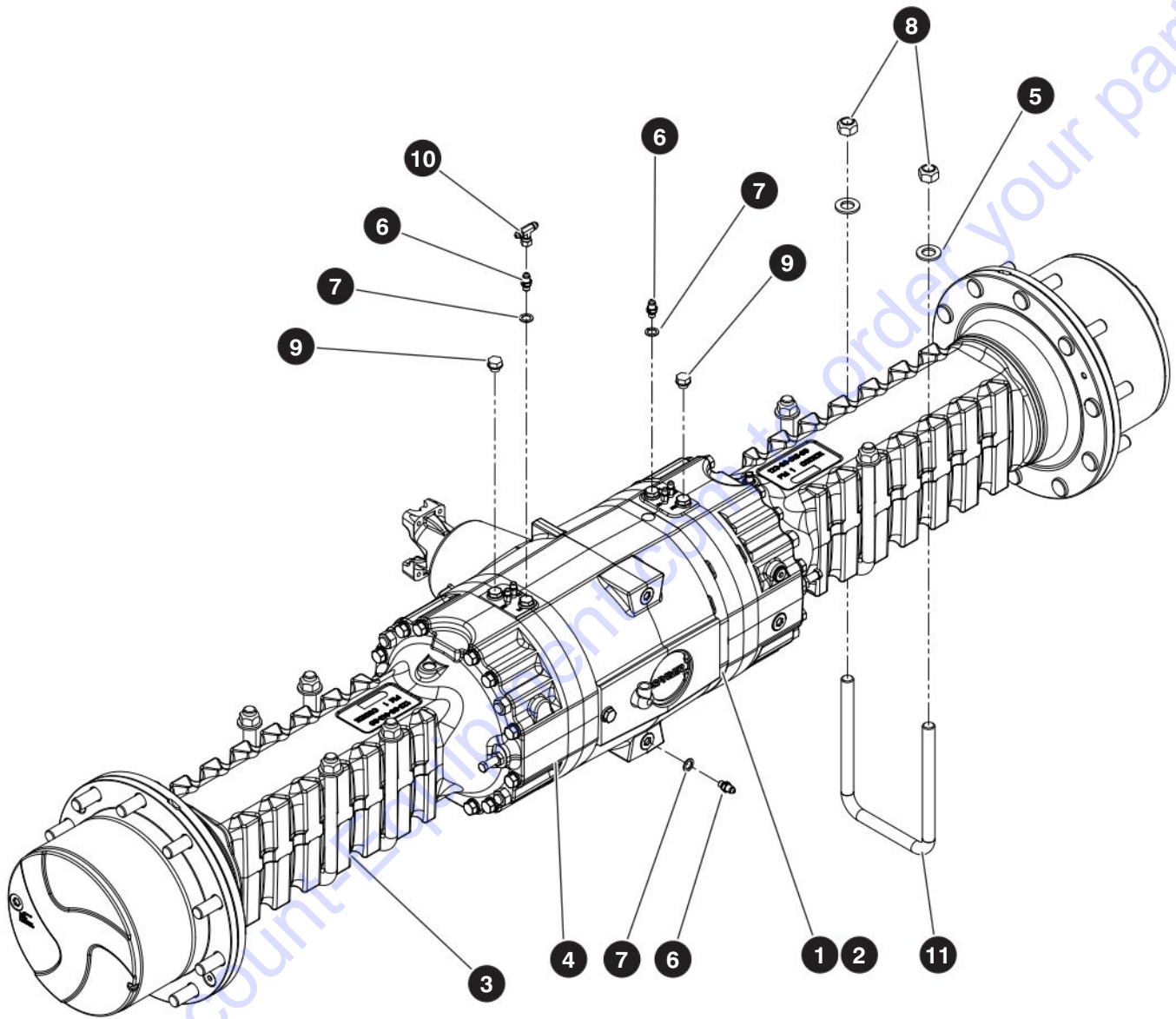
SKYJACK



## 5.3 Front Axle

Index No.	Skyjack Part No.	Qty.	Description
-	165152	1	FRONT AXLE
-	165104	1	• AXLE, Front
1	(Ref.)	1	• • CENTRAL HOUSING - Front Axle (For components, refer to 5.8 Central Housing - Front Axle)
2	(Ref.)	1	• • DIFFERENTIAL - Front Axle (For components, refer to 5.5 Differential - Front Axle)
3	(Ref.)	1	• • HUB REDUCTION - Front Axle (For components, refer to 5.6 Hub Reduction - Front Axle)
4	(Ref.)	1	• • BRAKES - Front Axle (For components, refer to 5.7 Brakes - Front Axle)
5	(Ref.)	1	• • STEERING ASSEMBLY - Front Axle (For components, refer to 5.9 Steering Assembly - Front Axle)
6	(Ref.)	1	• • TRUNNION - Front Axle (For components, refer to 5.10 Trunnion - Front Axle)
7	171940	2	• WEAR PAD, Steering axle
8	702194	4	• WASHER, Flat hardened (0.75")
9	149181	2	• FITTING, Straight (04 JICM - M14 x 1.5)
10	168769	2	• FITTING, Straight (06 JICM - M18M)
11	139126	2	• SEAL, British bonded (04 SPPM)
12	700575	4	• NUT, Torque lock (3/4"-10, Grade C
13	146773	4	• BOLT, Hex head (0.75"-10 x 5.00" gr 8)
14	171198	2	• FILTER, Breather
15	160792	1	• FITTING, Branch tee (04 JICFSW - 04 JICM)
16	152305	2	• SEAL, Bonded (M18 DIN 3852-1)
17	171941	4	• SCREW, Flat head cap (M16-2 x 40 gr 10.9)

## 5.4 Rear Axle



M162153AC

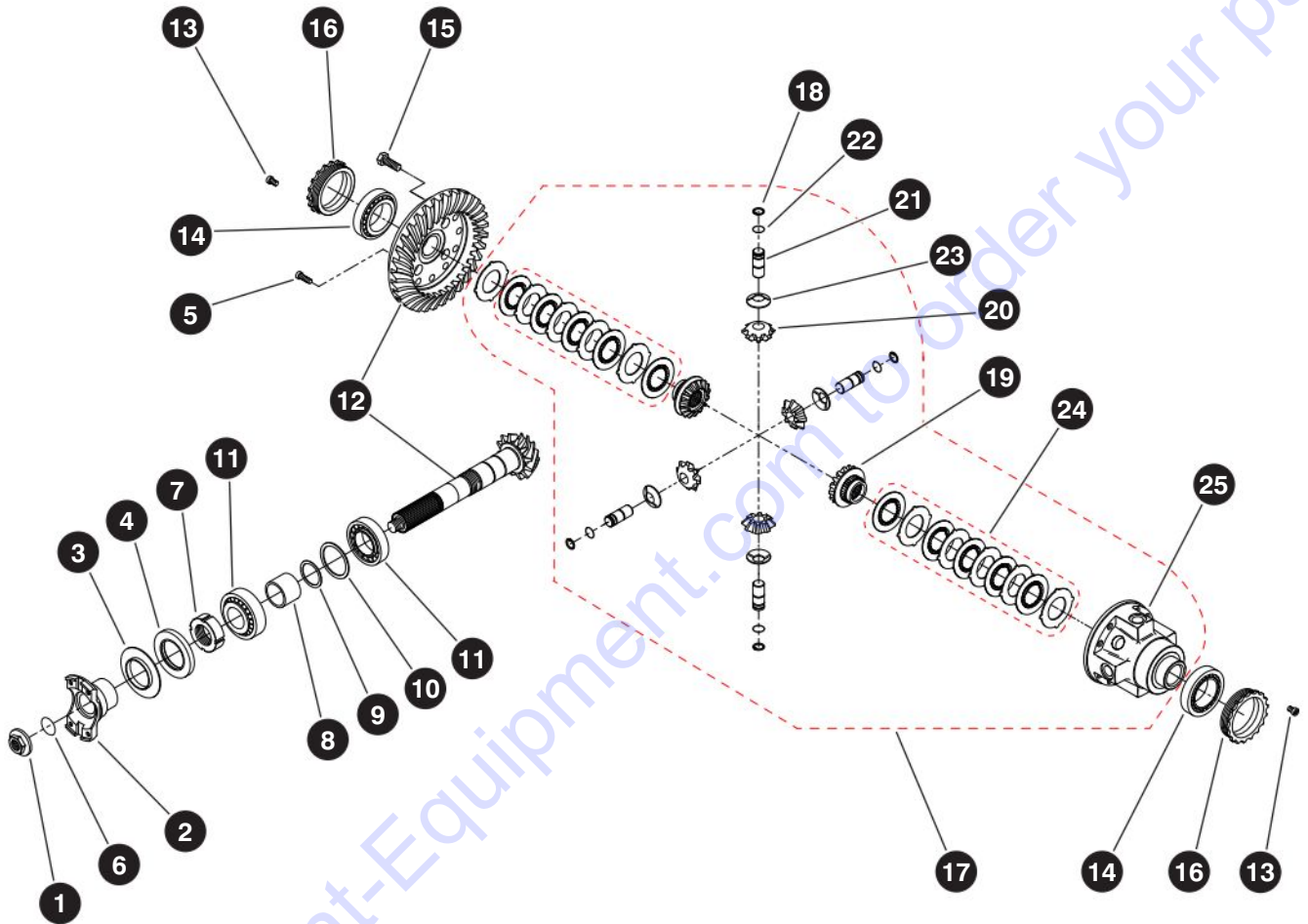
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## 5.4 Rear Axle

Index No.	Skyjack Part No.	Qty.	Description
-	165153	1	REAR AXLE
-	165105	1	• AXLE, Rear
1	(Ref.)	1	• • CENTRAL HOUSING - Rear Axle (For components, refer to 5.14 Central Housing - Rear Axle)
2	(Ref.)	1	• • DIFFERENTIAL - Rear Axle (For components, refer to 5.12 Differential - Rear Axle)
3	(Ref.)	1	• • HUB REDUCTION - Rear Axle (For components, refer to 5.13 Hub Reduction - Rear Axle)
4	(Ref.)	1	• • BRAKES - Rear Axle (For components, refer to 5.15 Brakes - Rear Axle)
5	702194	8	• WASHER, Flat hardened (0.75")
6	149181	3	• FITTING, Straight (04 JICM - M14 x 1.5)
7	139126	3	• SEAL, British bonded (04 SPPM)
8	700575	8	• NUT, Torque lock (3/4"-10, Grade C)
9	171198	2	• FILTER, Breather
10	160792	1	• FITTING, Branch tee (04 JICFSW - 04 JICM)
11	167732	4	• U-BOLT, Axle mount

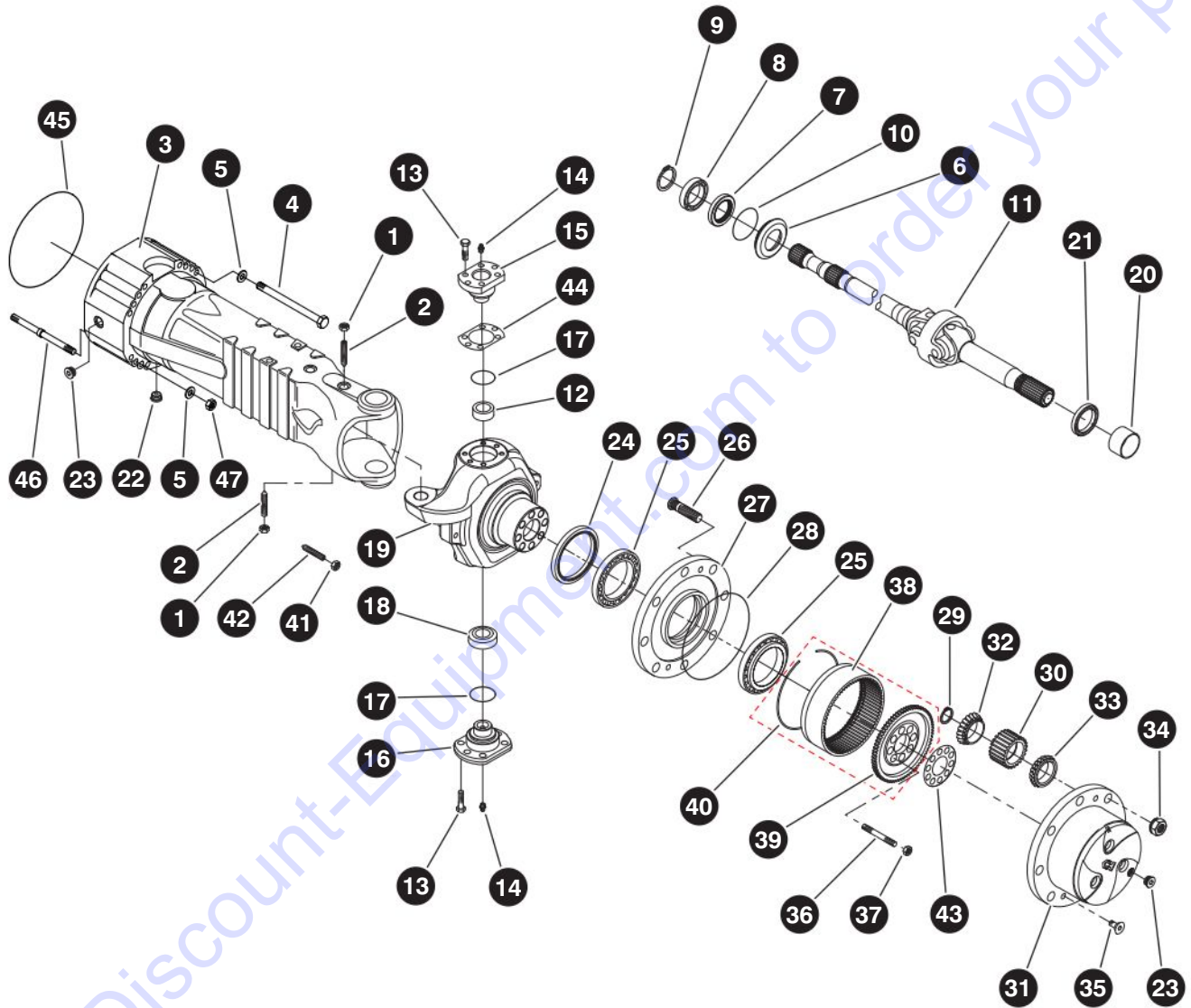
## 5.5 Differential - Front Axle



## 5.5 Differential - Front Axle

Index No.	Skyjack Part No.	Qty.	Description
-	170788	1	DIFFERENTIAL - Front Axle
1	407261	1	• NUT
-	140975	1	• FLANGE KIT
2	170791	1	• • FLANGE
3	920027	1	• • PLATE, Cover
4	170792	1	• SEAL
5	170793	4	• BOLT
6	140979	1	• O-RING
7	923838	1	• NUT, Ring
8	927327	1	• SPACER
9	170789	1	• KIT, Shim
10	170790	1	• KIT, Shim
11	140984	2	• BEARING, Taper roller
12	170794	1	• GEAR SET, Bevel
13	168259	2	• BOLT
14	140987	2	• BEARING, Taper roller
15	923879	12	• BOLT
16	927316	2	• RING NUT
17	140996	1	• DIFFERENTIAL, Limited slip
18	140978	4	• • CIRCLIP
19	140988	2	• • GEAR, Differential side
20	140989	4	• • PINION, Differential
21	140990	4	• • PIN
22	140991	4	• • CIRCLIP
23	140992	4	• • WASHER, Friction
24	170795	2	• • DISC
25	140995	1	• • CARRIER, Differential

## 5.6 Hub Reduction - Front Axle



M170796AA

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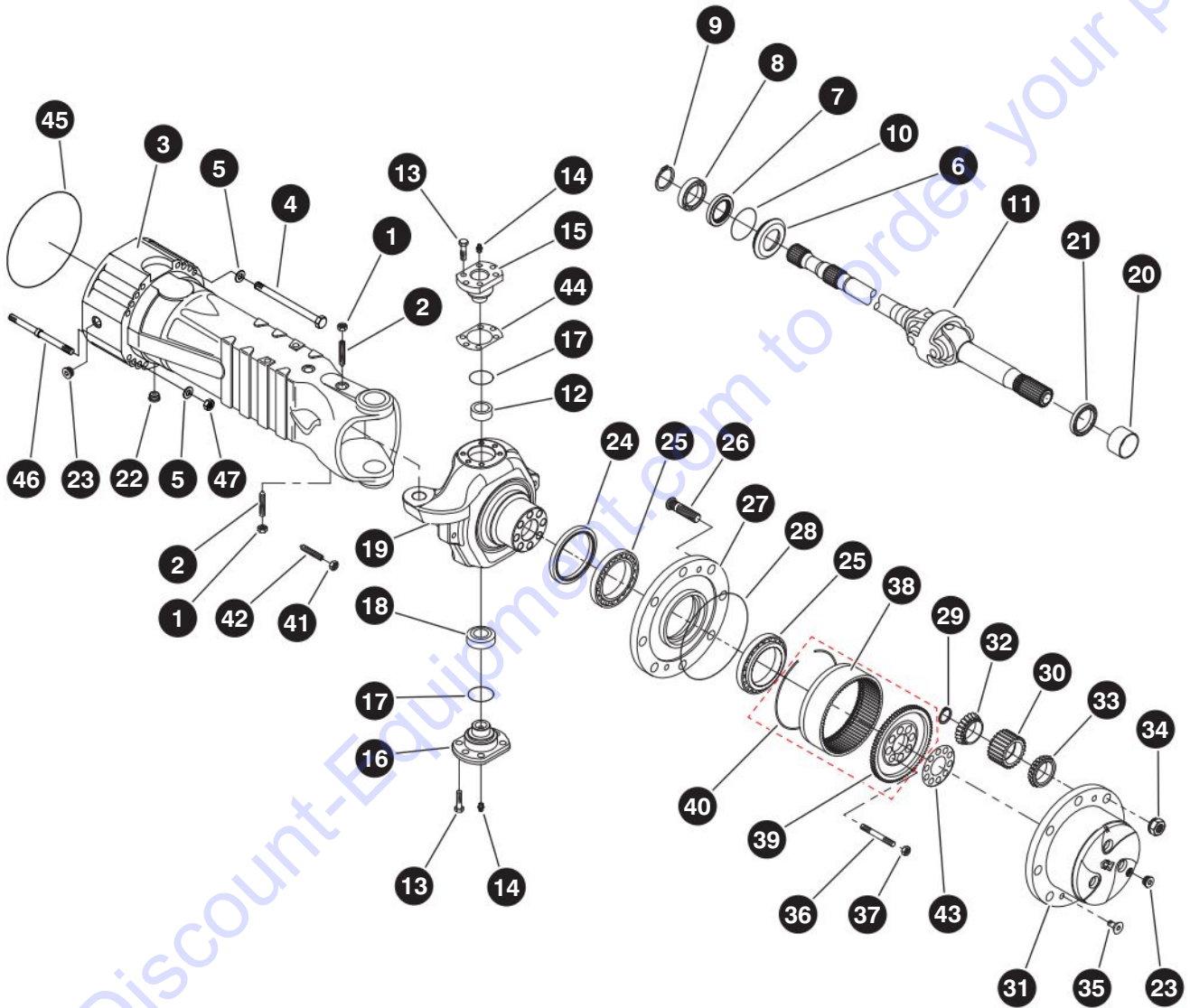
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## 5.6 Hub Reduction - Front Axle

Index No.	Skyjack Part No.	Qty.	Description
-	170796	1	HUB REDUCTION - Front Axle
1	403084	2	• NUT
2	170797	2	• BOLT
3	170798	2	• CASE, Axle
4	170799	24	• BOLT
5	927332	8	• WASHER
6	151761	2	• BUSHING, Reduction
7	151762	2	• SEAL
8	141073	2	• BEARING, Ball
9	403064	2	• CIRCLIP
10	141171	2	• O-RING
11	170800	2	• JOINT, Double universal
12	170801	2	• BUSHING
13	923879	24	• BOLT
14	168273	2	• FITTING, Grease
15	170802	2	• PIN, Pivot
16	170803	2	• PIN, Pivot
17	923022	2	• EXCLUDER, Dust
18	923912	2	• BEARING
-	170804	1	• CASE ASSEMBLY, Steering - left, <b>A</b>
	170806	1	• CASE ASSEMBLY, Steering - right, <b>B</b>
19	170805	1	• • CASE, Steering - left, <b>A</b>
	170807	1	• • CASE, Steering - right, <b>B</b>
20	923830	1	• • BEARING, Thrust
21	923829	2	• SEAL
22	927314	2	• PLUG, Magnetic
23	140969	4	• PLUG
24	154631	2	• SEAL
25	925239	2	• BEARING, Taper roller
26	170808	20	• STUD, Wheel
27	923915	2	• HUB, Wheel
28	403046	2	• O-RING
-	170809	2	• PLANETARY GEAR CARRIER ASSEMBLY
29	170810	6	• • CIRCLIP
30	170828	6	• • PINION, Differential
31	170829	2	• • CARRIER, Planetary gear
32	170830	6	• • BEARING
33	170831	6	• • BEARING
34	170832	20	• NUT
			<b>Parts list continued on the next page.</b>

## 5.6 Hub Reduction - Front Axle



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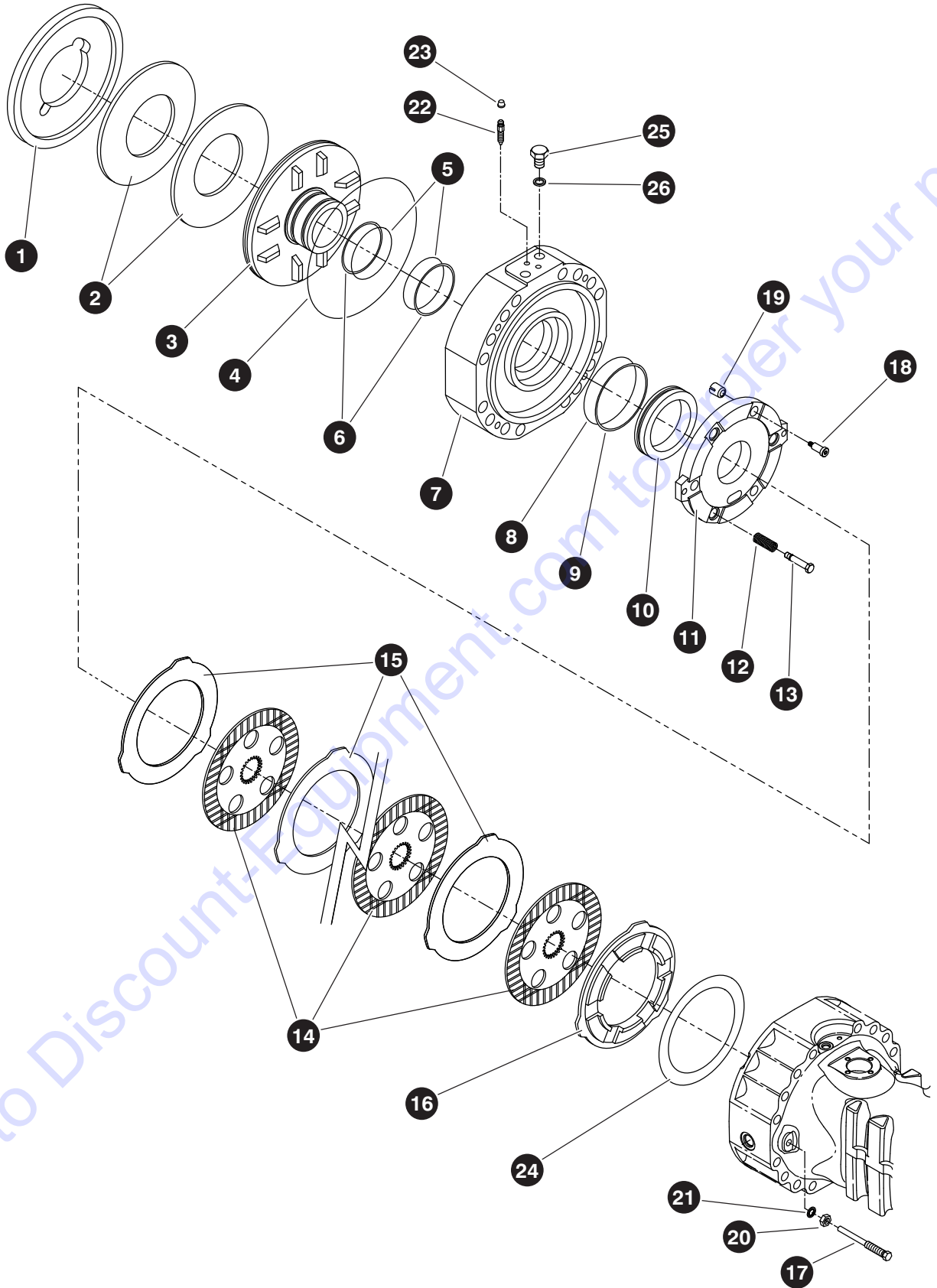
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## 5.6 Hub Reduction - Front Axle

Index No.	Skyjack Part No.	Qty.	Description
			<i>Parts list continued from the previous page.</i>
35	141033	4	• BOLT, Countersunk
36	168278	16	• STUD
37	923918	16	• NUT
-	170833	2	• KIT, Ring gear support
38	168280	2	• • SUPPORT, Ring gear
39	168281	2	• • GEAR, Ring
40	920728	2	• • CIRCLIP
-	141017	4	• BOLT, Steering adjust
41	141015	1	• • NUT
42	141016	1	• • BOLT
43	923919	2	• PLATE, Locking
44	170834	1	• SHIM KIT
45	140970	2	• O-RING
46	170835	8	• STUD
47	170836	5	• NUT

## 5.7 Brakes - Front Axle



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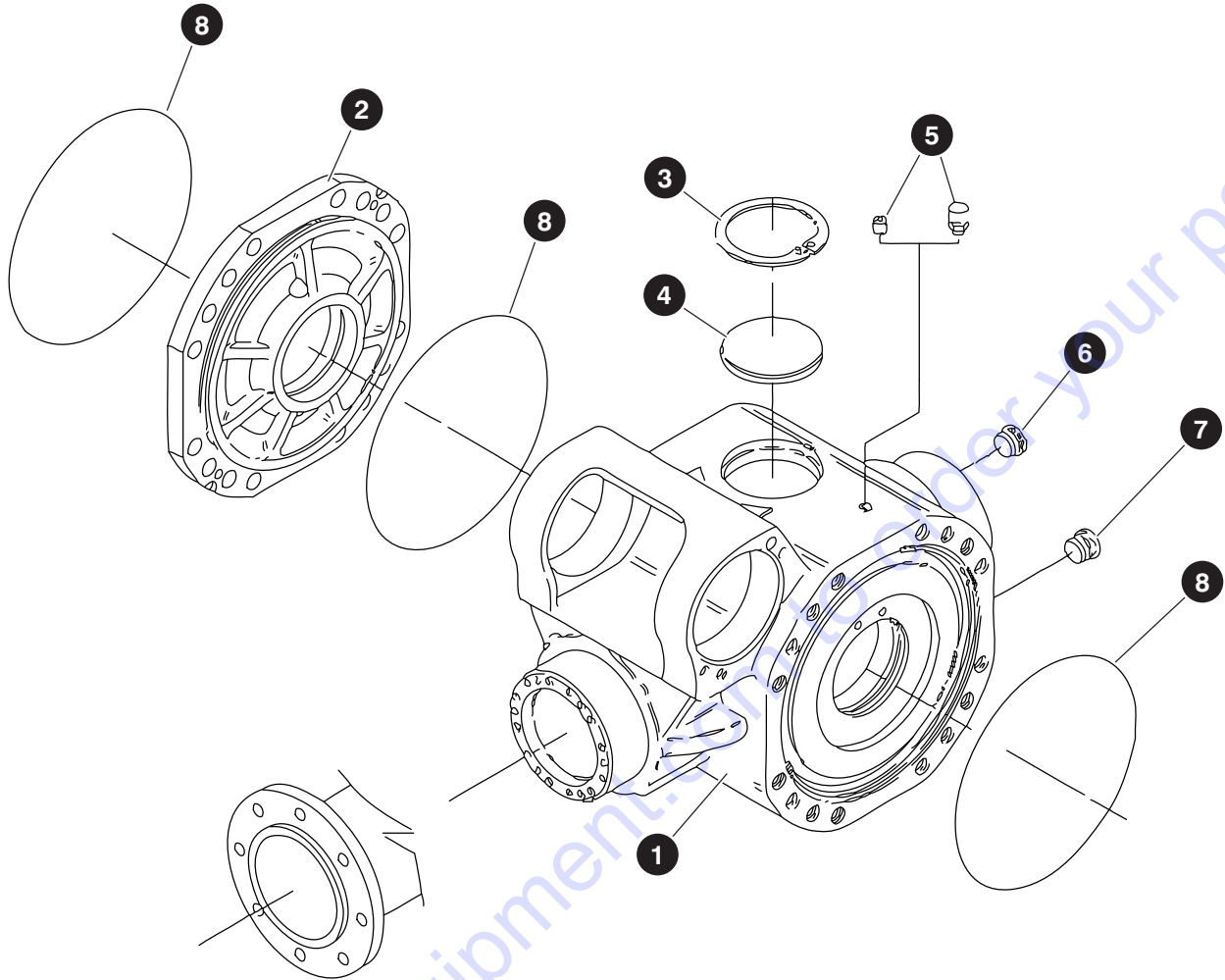
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## 5.7 Brakes - Front Axle

Index No.	Skyjack Part No.	Qty.	Description
-	170837	1	BRAKES - Front Axle
1	170838	1	• SPACER
2	170839	4	• SPRING
3	170840	2	• PISTON
4	170841	2	• O-RING
5	170842	4	• O-RING
6	170843	4	• RING, Back-up
7	170844	2	• COVER
8	170845	2	• O-RING
9	170846	2	• RING, Back-up
10	170847	2	• PISTON
11	170848	2	• DISC, Intermediate brake
12	168005	6	• SPRING
13	170849	6	• BOLT, Adjusting
14	170850	8	• DISC
15	141096	8	• DISC, Intermediate brake
16	170851	2	• SPACER
17	170852	4	• BOLT
18	170853	6	• BOLT, Adjusting
19	141098	6	• SPRING
20	925242	4	• NUT
21	933214	4	• WASHER, Lock
22	932863	4	• BOLT, Bleeding
23	929592	4	• PLUG
24	170854	1	• KIT, SHIM
-	168299	1	• PLUG WITH SEAL
25	168288	4	• • PLUG
26	168289	4	• • WASHER, Seal

## 5.8 Central Housing - Front Axle

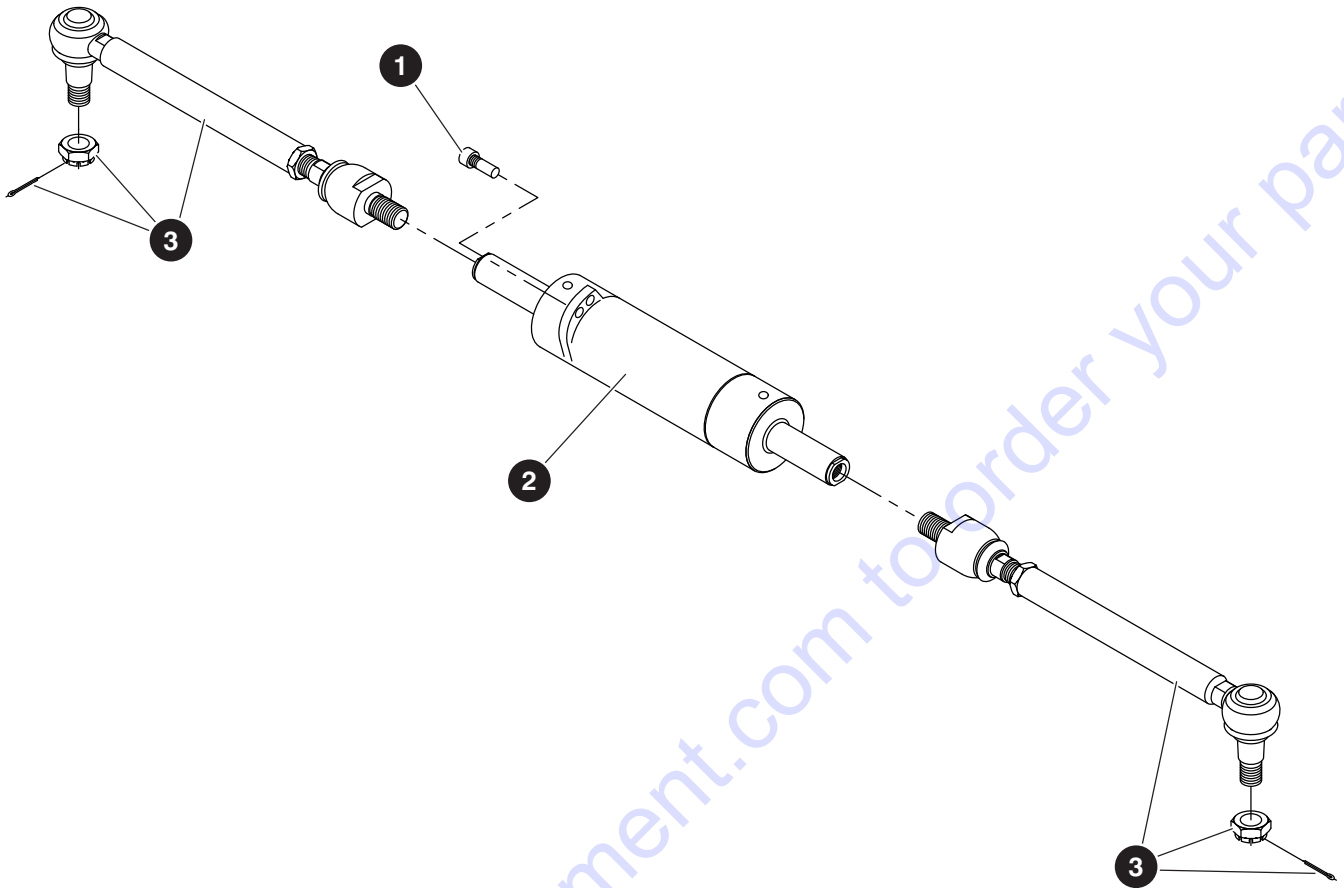


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Index No.	Skyjack Part No.	Qty.	Description
-	151755	-	CENTRAL HOUSING - Front Axle
1	406383	1	• HOUSING
2	170719	1	• COVER
3	140966	1	• CIRCLIP
4	140967	1	• PLUG
5	170720	1	• VENT
6	140969	1	• PLUG
7	927314	1	• PLUG, Magnet
8	140970	3	• O-RING
9	700575	8	• NUT, Torque lock (3/4"-10, Grade C) (not shown)
10	171198	2	• FILTER, Breather (not shown)
11	160792	1	• FITTING, Branch tee (04 JICFSW - 04 JICM) (not shown)
12	167732	4	• U-BOLT, Axle mount (not shown)



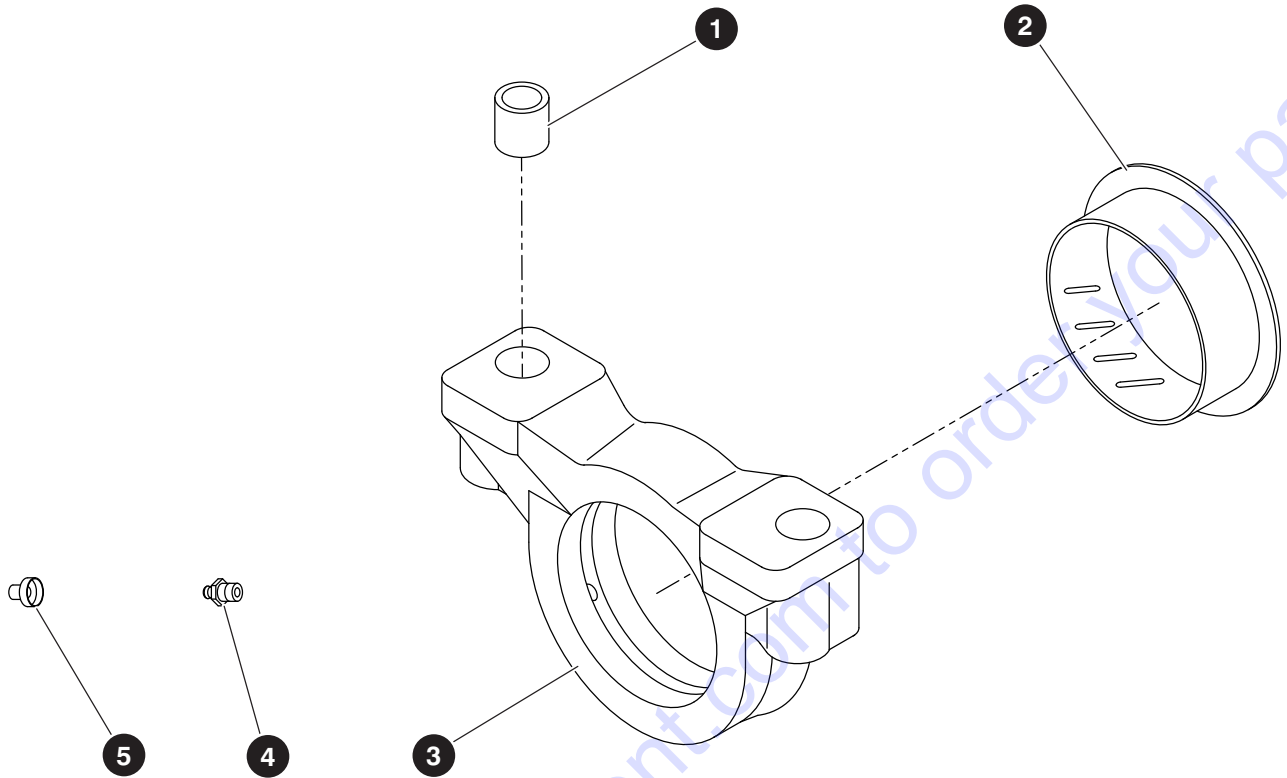
## 5.9 Steering Assembly - Front Axle



M170931AA

Index No.	Skyjack Part No.	Qty.	Description
-	170902	1	STEERING ASSEMBLY - Front Axle
1	927582	4	• BOLT
2	170903	1	• CYLINDER, Steer
	169242	1	• • KIT, Seal - Steer Cylinder (not shown)
3	170904	2	• TIE ROD

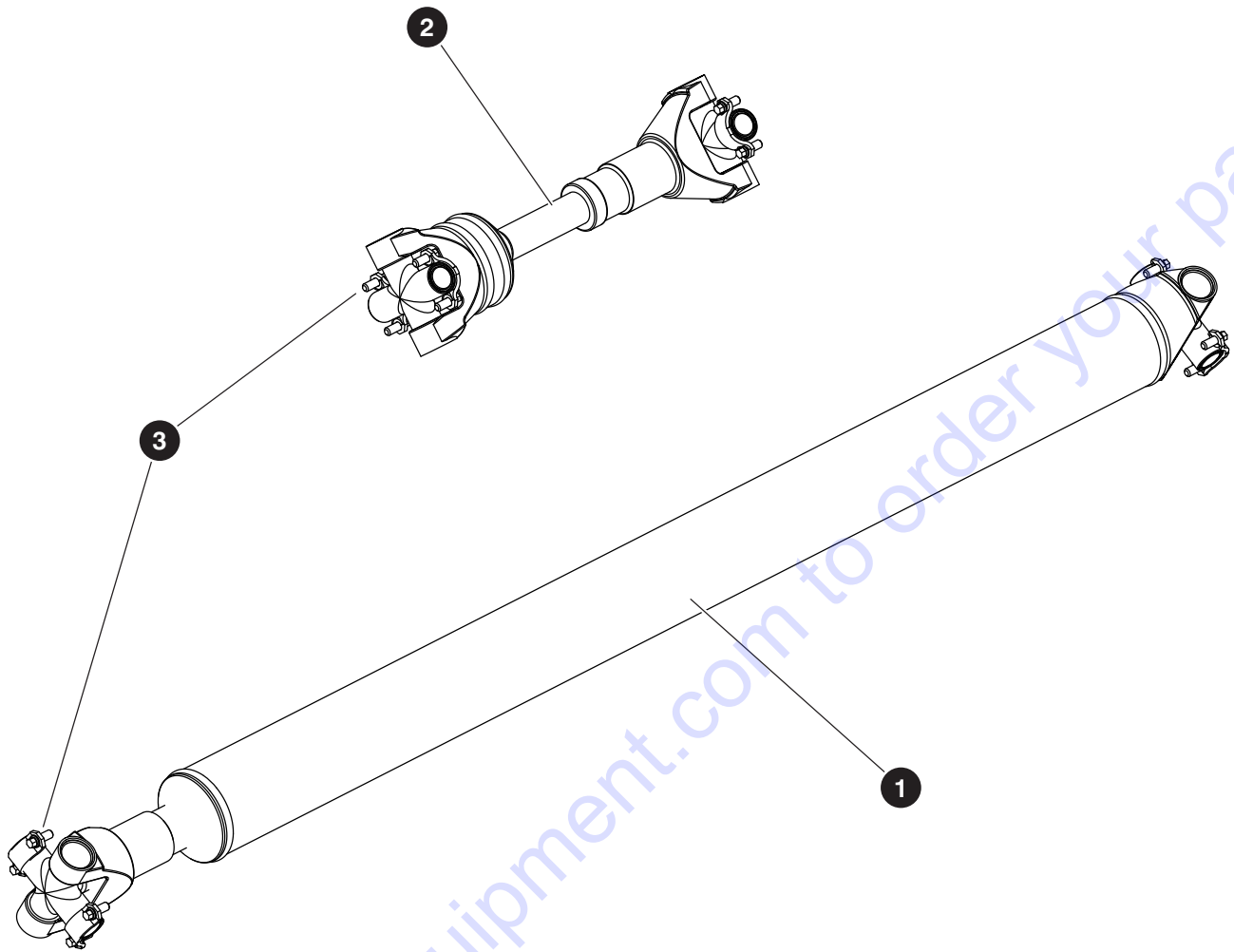
## 5.10 Trunnion - Front Axle



M170855AA

Index No.	Skyjack Part No.	Qty.	Description
-	170855	1	TRUNNION - Front Axle
1	141048	4	• BUSHING, Reduction
2	170856	2	• BUSHING, Thrust
3	928711	2	• SUPPORT
4	168273	2	• FITTING, Grease
5	929592	2	• PLUG
6	141052	2	• SUPPORT (not shown)

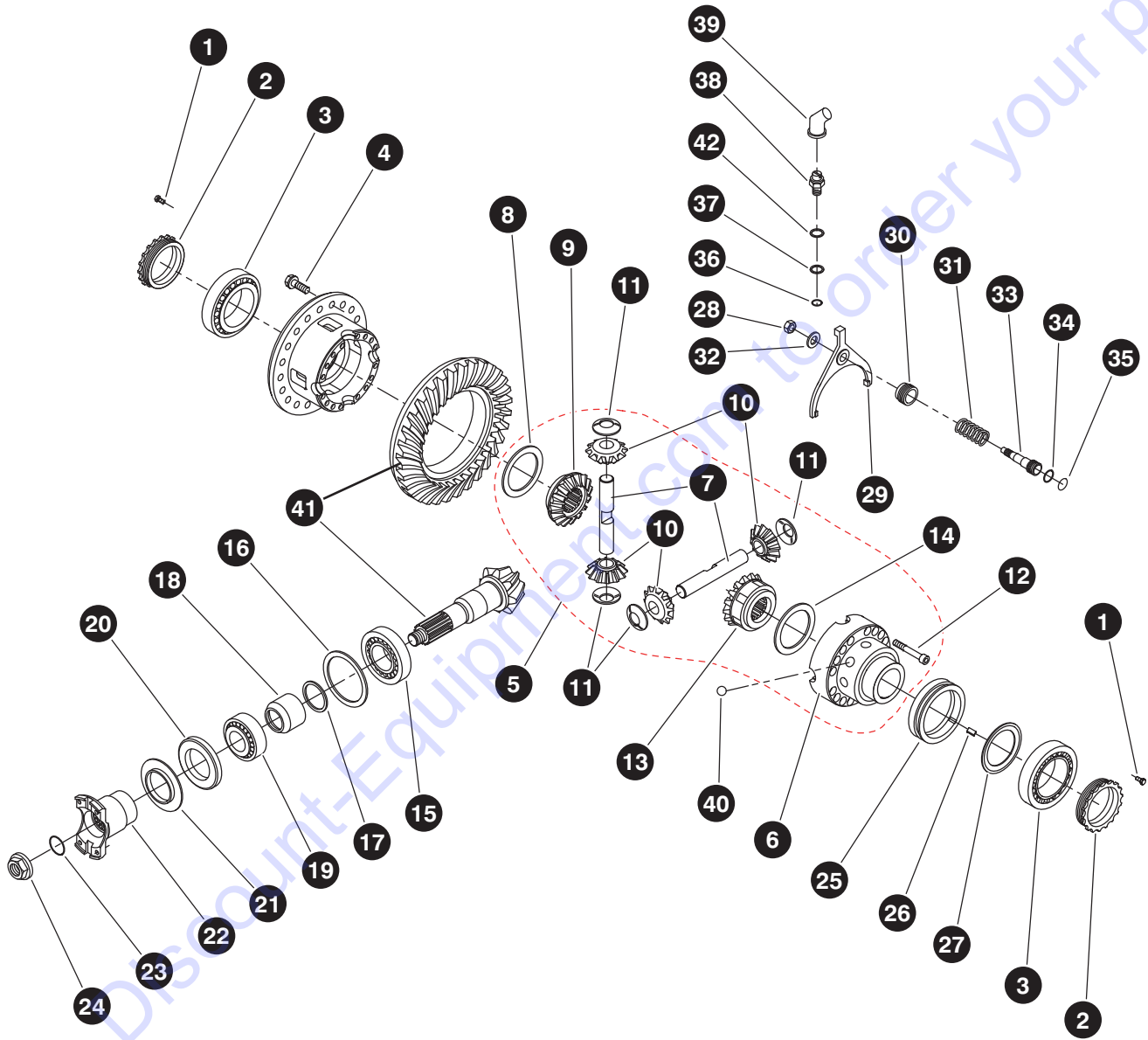
## 5.11 Driveshaft



M198058AA

Index No.	Skyjack Part No.	Qty.	Description
-	198058	1	DRIVESHAFT ASSEMBLY
1	165202	1	• DRIVESHAFT, 1410 Spicer (58.86 long)
2	165201	1	• DRIVESHAFT, 1410 Spicer (11.85 long)
3	138731	4	• HARDWARE KIT, Driveshaft

# 5.12 Differential - Rear Axle



M170862AA

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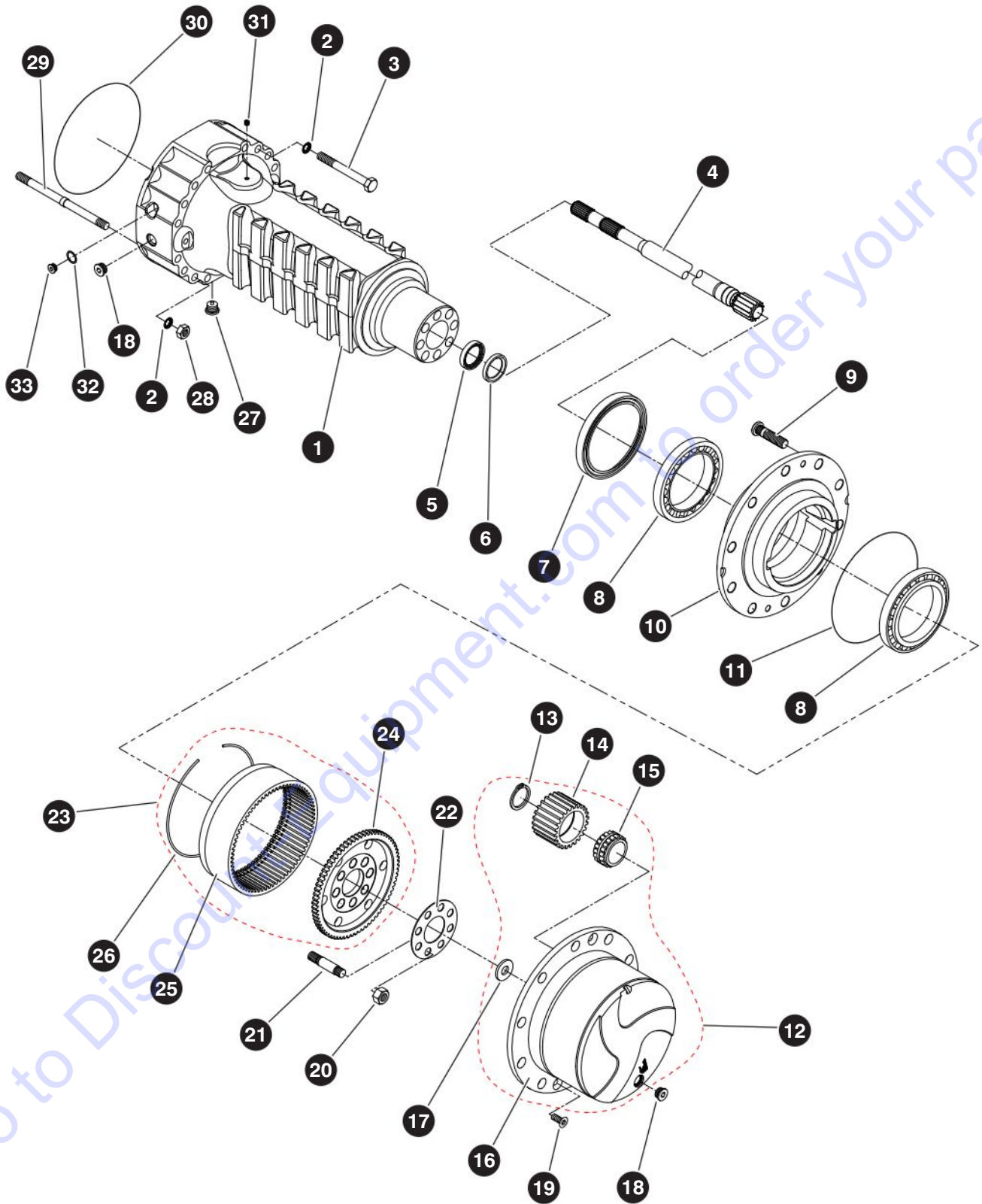
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## 5.12 Differential - Rear Axle

Index No.	Skyjack Part No.	Qty.	Description
-	170862	1	DIFFERENTIAL - Rear Axle
1	168259	2	• BOLT
2	168260	2	• NUT, Ring
3	923846	2	• BEARING, Taper roller
4	923879	16	• BOLT
5	170863	1	• DIFFERENTIAL ASSEMBLY
6	170864	1	• • CARRIER, Differential
7	168264	2	• • SHAFT, Differential
8	168262	1	• • WASHER, Friction
9	168263	1	• • SIDE GEAR, Differential
10	168266	4	• • PINION, Differential
11	168267	4	• • WASHER, Friction
12	170865	15	• • BOLT
13	170866	1	• • SIDE GEAR, Differential
14	170867	1	• • WASHER, Friction
15	925249	1	• BEARING, Taper roller
16	168268	1	• KIT, Shim
17	923892	1	• KIT, Ring
18	414415	1	• SPACER
19	168316	1	• BEARING, Taper roller
20	923894	1	• SEAL
21	923895	1	• PLATE, Cover
22	170868	1	• FLANGE
23	923897	1	• O-RING
24	923898	1	• NUT
25	170869	1	• SLEEVE
26	154372	1	• KEY
27	170880	1	• WASHER, Friction
28	170870	1	• NUT
29	170874	1	• FORK, Selector
30	170875	1	• NUT, Ring
31	170876	1	• SPRING
32	923900	1	• WASHER, Spring
33	170877	1	• PISTON
34	141129	1	• O-RING
35	170878	1	• GASKET
36	154579	1	• O-RING
37	154578	1	• WASHER, Seal
38	170879	1	• SWITCH, Security
39	409419	1	• BOOT
40	154574	8	• BALL, Detent
41	170881	1	• GEAR SET, Bevel
42	170882	1	• WASHER, Seal

## 5.13 Hub Reduction - Rear Axle



M170883AA

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142

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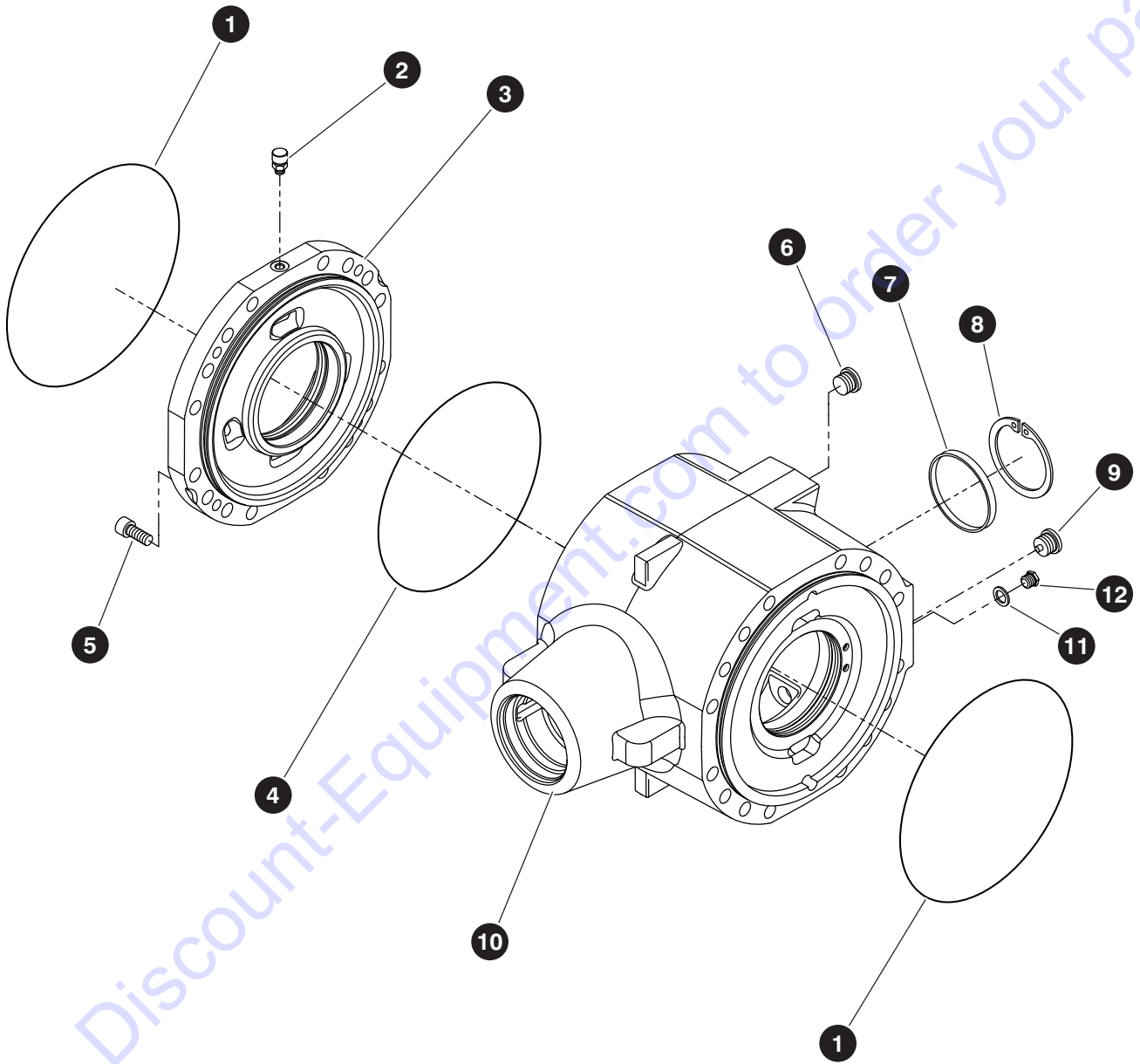
SKYJACK



## 5.13 Hub Reduction - Rear Axle

Index No.	Skyjack Part No.	Qty.	Description
-	170883	1	HUB REDUCTION - Rear Axle
1	170884	1	• CASE, Axle
2	927332	8	• WASHER
3	923901	24	• BOLT
4	170885	2	• SHAFT, Half
5	170886	2	• SEAL
6	170887	2	• RING
7	154631	2	• SEAL
8	925239	4	• BEARING, Taper roller
9	170808	20	• STUD, Wheel
10	170888	2	• HUB, Wheel
11	925533	2	• O-RING
12	140889	2	• CARRIER ASSEMBLY, Planet gear
13	922522	6	• • RING, Snap
14	168282	6	• • GEAR, Planet
15	922523	6	• • BEARING
16	170890	2	• • CARRIER, Planet gear
17	141037	2	• • WASHER, Friction
18	168258	4	• PLUG
19	141033	4	• BOLT, Countersunk
20	923918	16	• NUT
21	168278	16	• STUD
22	923919	2	• PLATE, Locking
23	170833	2	• SUPPORT ASSEMBLY, Ring gear
24	168280	2	• • SUPPORT, Ring gear
25	168281	2	• • GEAR, Ring
26	920728	2	• • CIRCLIP
27	154600	2	• PLUG, Magnetic
28	170836	5	• NUT
29	170891	8	• STUD
30	170858	2	• O-RING
31	168256	2	• PLUG
32	170892	2	• WASHER
33	170893	2	• PLUG

## 5.14 Central Housing - Rear Axle



M170861AA

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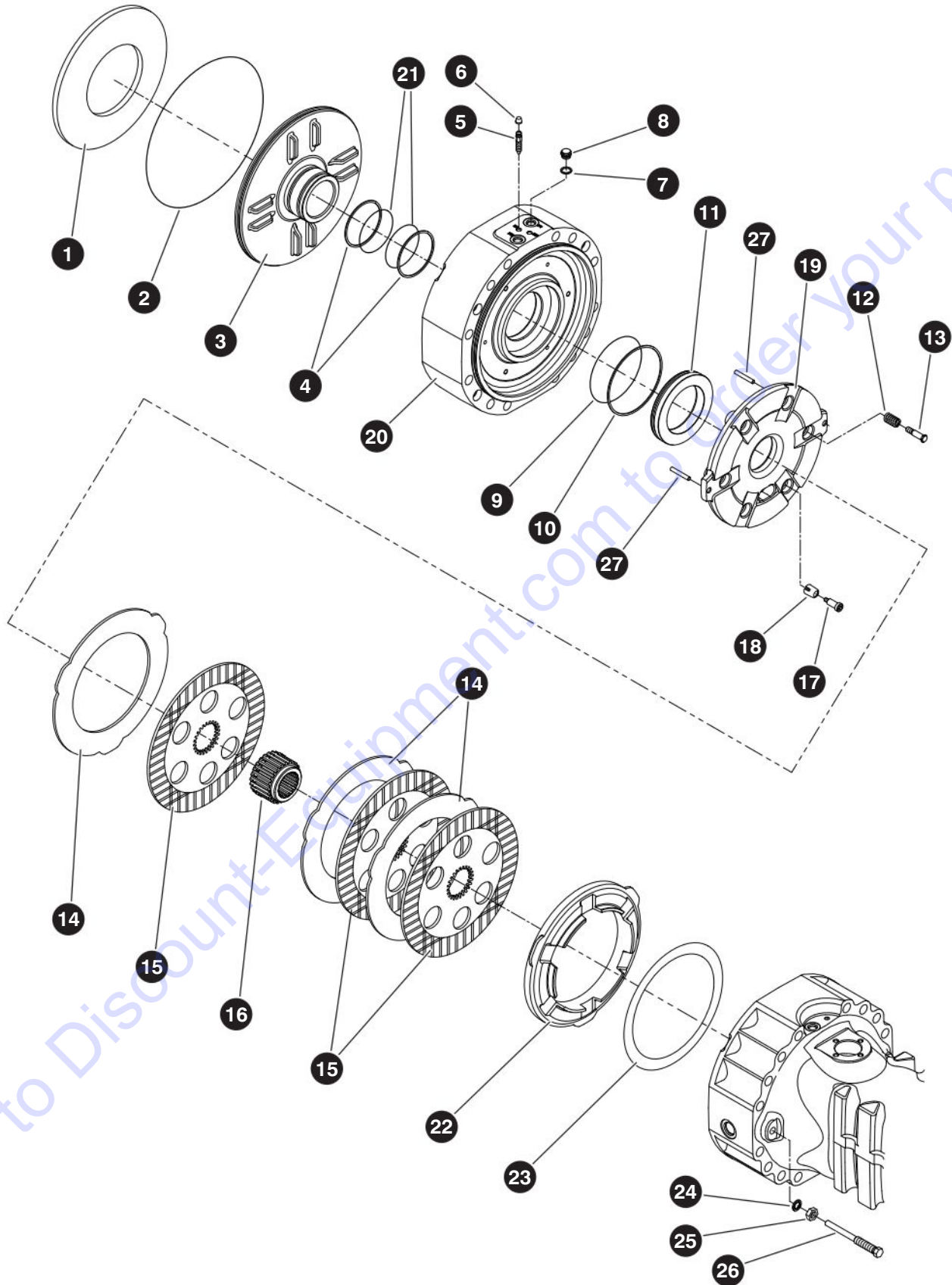
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## 5.14 Central Housing - Rear Axle

Index No.	Skyjack Part No.	Qty.	Description
-	170857	1	CENTRAL HOUSING - Rear Axle
1	170858	2	• O-RING
2	932867	1	• VENT
3	170859	1	• COVER, Intermediate
4	925533	1	• O-RING
5	170860	4	• BOLT
6	168258	1	• PLUG
7	140967	1	• PLUG
8	140966	1	• CIRCLIP
9	154600	1	• PLUG, Magnetic
10	170861	1	• HOUSING
-	168299	1	• PLUG WITH SEAL
11	168289	1	• • WASHER, Seal
12	168288	1	• • PLUG

## 5.15 Brakes - Rear Axle



M170894AA

229037ADA

146

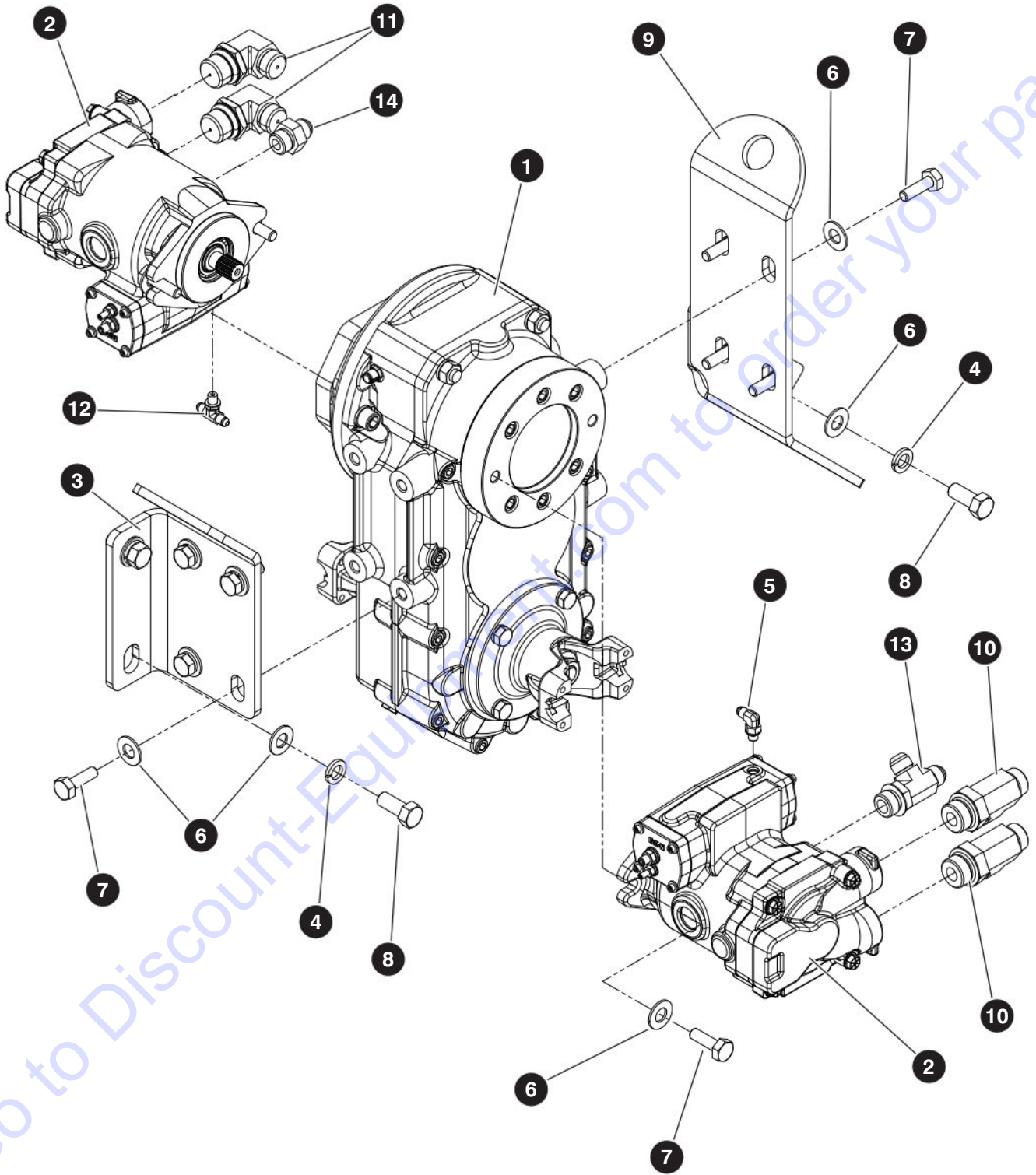
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## 5.15 Brakes - Rear Axle

Index No.	Skyjack Part No.	Qty.	Description
-	170894	1	BRAKES - Rear Axle
1	923935	2	• SPRING
2	170858	2	• O-RING
3	170895	2	• PISTON
4	170843	4	• RING, Back-up
5	932863	4	• BOLT, Bleeding
6	929592	4	• PLUG
-	168299	1	• PLUG WITH SEAL
7	168289	4	• • WASHER, Seal
8	168288	4	• • PLUG
9	170896	2	• O-RING
10	170897	2	• RING, Back-up
11	170898	2	• PISTON
12	168005	6	• SPRING
13	170849	6	• BOLT, Adjusting
14	923848	6	• DISC, Intermediate brake
15	934625	6	• DISC, Brake
16	923929	2	• BUSHING, Reduction
17	170853	6	• BOLT, Adjusting
18	141098	6	• SPRING
19	168292	2	• DISC, Intermediate brake
20	170899	2	• COVER
21	170842	4	• O-RING
22	170900	2	• SPACER
23	168295	1	• KIT, SHIM
24	933214	4	• WASHER, Lock
25	925242	4	• NUT
26	170901	4	• BOLT
27	168298	4	• DOWEL

## 5.16 Gear Box & Motors



M165115AG

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SKYJACK



## 5.16 Gear Box & Motors

Index No.	Skyjack Part No.	Qty.	Description
-	165115	1	GEAR BOX & MOTOR ASSEMBLY
1	(Ref.)	1	<ul style="list-style-type: none"> <li>BOX, Gear - Dana 305 ratio 1:4.49 (For components, refer to 5.17 Gear Box)</li> </ul>
2	171944	2	<ul style="list-style-type: none"> <li>MOTOR, Axle drive</li> </ul>
	170933	1	<ul style="list-style-type: none"> <li>SEAL KIT, Drive motor</li> </ul>
3	165198	1	<ul style="list-style-type: none"> <li>BRACKET MOUNT, Gear box</li> </ul>
4	103998	4	<ul style="list-style-type: none"> <li>WASHER, Lock (0.625")</li> </ul>
5	125883	1	<ul style="list-style-type: none"> <li>FITTING, 90° (04 JICM - 04 ORBM)</li> </ul>
6	700782	16	<ul style="list-style-type: none"> <li>WASHER, Flat hardened (0.625")</li> </ul>
7	171913	12	<ul style="list-style-type: none"> <li>BOLT, Hex head (M14 x 2 x 35mm gr 10.9)</li> </ul>
8	103899	4	<ul style="list-style-type: none"> <li>BOLT, Hex head (0.625"-11 x 1.50" gr 5)</li> </ul>
9	167919	1	<ul style="list-style-type: none"> <li>BRACKET MOUNT, Gear box</li> </ul>
10	167066	2	<ul style="list-style-type: none"> <li>FITTING, Run tee (12 FSM - 16 ORBM - 12 FSM)</li> </ul>
11	167067	2	<ul style="list-style-type: none"> <li>FITTING, 90° (12 FSM - 16 ORBM)</li> </ul>
12	132463	1	<ul style="list-style-type: none"> <li>FITTING, Tee (04 MJ - 04 MB - 04 MJ)</li> </ul>
13	167258	1	<ul style="list-style-type: none"> <li>FITTING, Run tee (10 JICM - 12 ORBM - 10 JICM)</li> </ul>
14	137490	1	<ul style="list-style-type: none"> <li>FITTING, Straight (10 JICM - 10 ORBM)</li> </ul>

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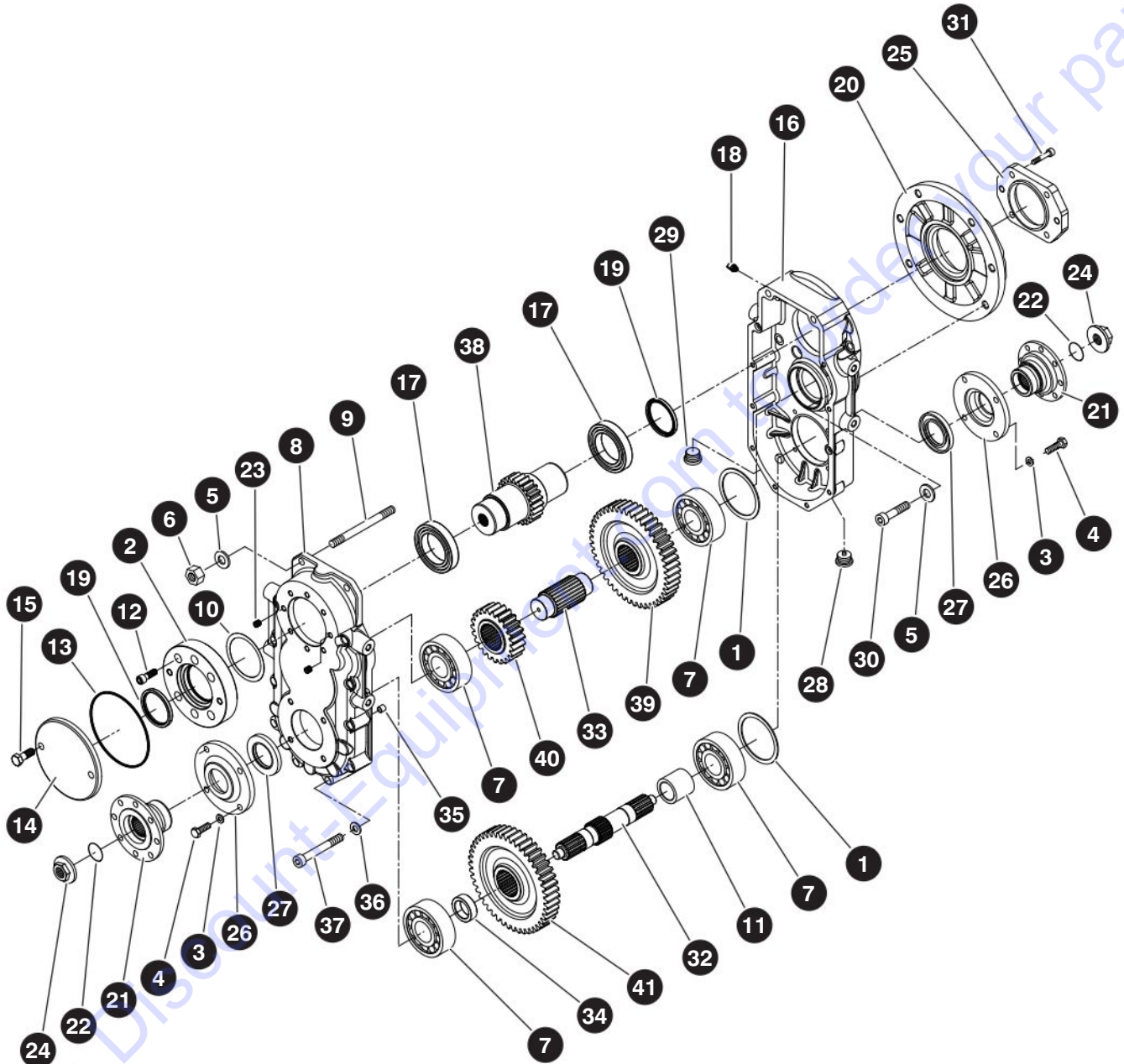
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# 5.17 Gear Box



M170935AA

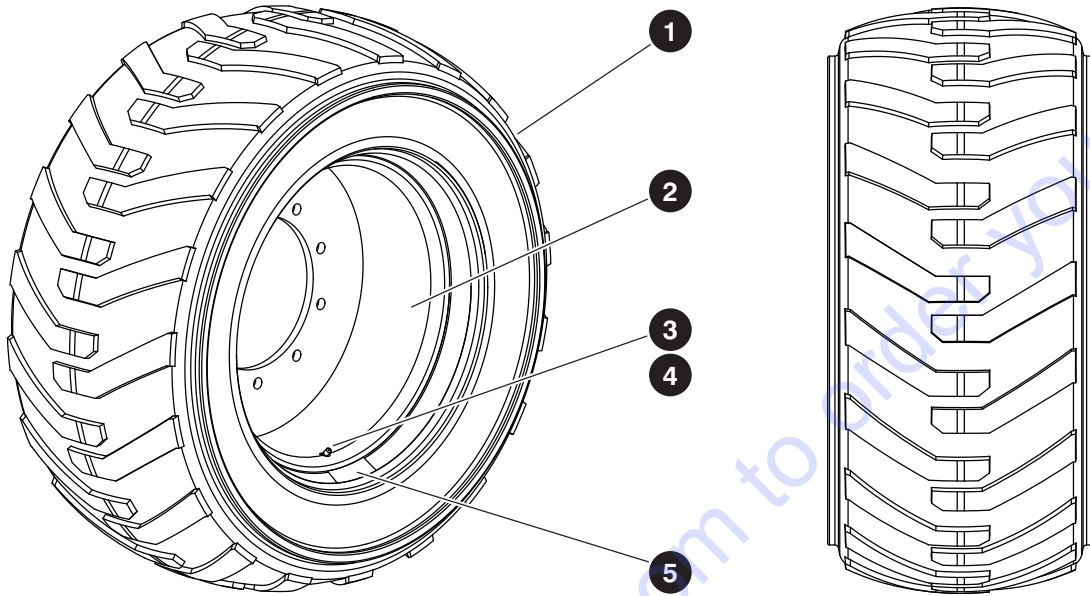
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## 5.17 Gear Box

Index No.	Skyjack Part No.	Qty.	Description
-	168160	-	GEAR BOX, Dana 305 ratio 1:4.49
-	170905	1	• GEAR BOX
1	170906	1	• • KIT, Shim
2	141384	1	• • COVER
3	141373	8	• • WASHER, Spring
4	170907	8	• • BOLT
5	141364	6	• • WASHER, Spring
6	141363	2	• • NUT
7	170908	2	• • BEARING, Ball
8	141365	1	• • HOUSING
9	141367	2	• • STUD
10	141382	1	• • SHIM
11	170909	1	• • SPACER
12	141362	6	• • BOLT, Cylinder
13	170809	1	• • O-RING
14	170910	1	• • COVER
15	170911	2	• • BOLT
16	170912	1	• • COVER
17	141366	2	• • BEARING, Ball
18	932867	1	• • VENT
19	141370	2	• • SEAL
20	141371	1	• • COVER
21	141151	2	• • FLANGE
22	141152	2	• • O-RING
23	141368	2	• • BOLT, Grub
24	141372	2	• • NUT
25	170913	1	• • COVER
26	141374	2	• • COVER
27	170914	2	• • SEAL
28	925941	1	• • PLUG, Magnetic
29	920003	1	• • PLUG
30	141383	4	• • BOLT, Cylinder
31	170915	4	• • BOLT, Cylinder
32	170916	1	• • SHAFT, Output
33	141377	1	• • SHAFT
34	141378	1	• • SPACER
35	141379	2	• • BUSHING, Reduction
36	141380	10	• • WASHER, Spring
37	141381	10	• • BOLT, Cylinder
-	170917	1	• GEARS
38	170918	1	• • SHAFT, GEAR
39	170919	1	• • GEAR
40	141388	1	• • GEAR
41	141389	1	• • GEAR

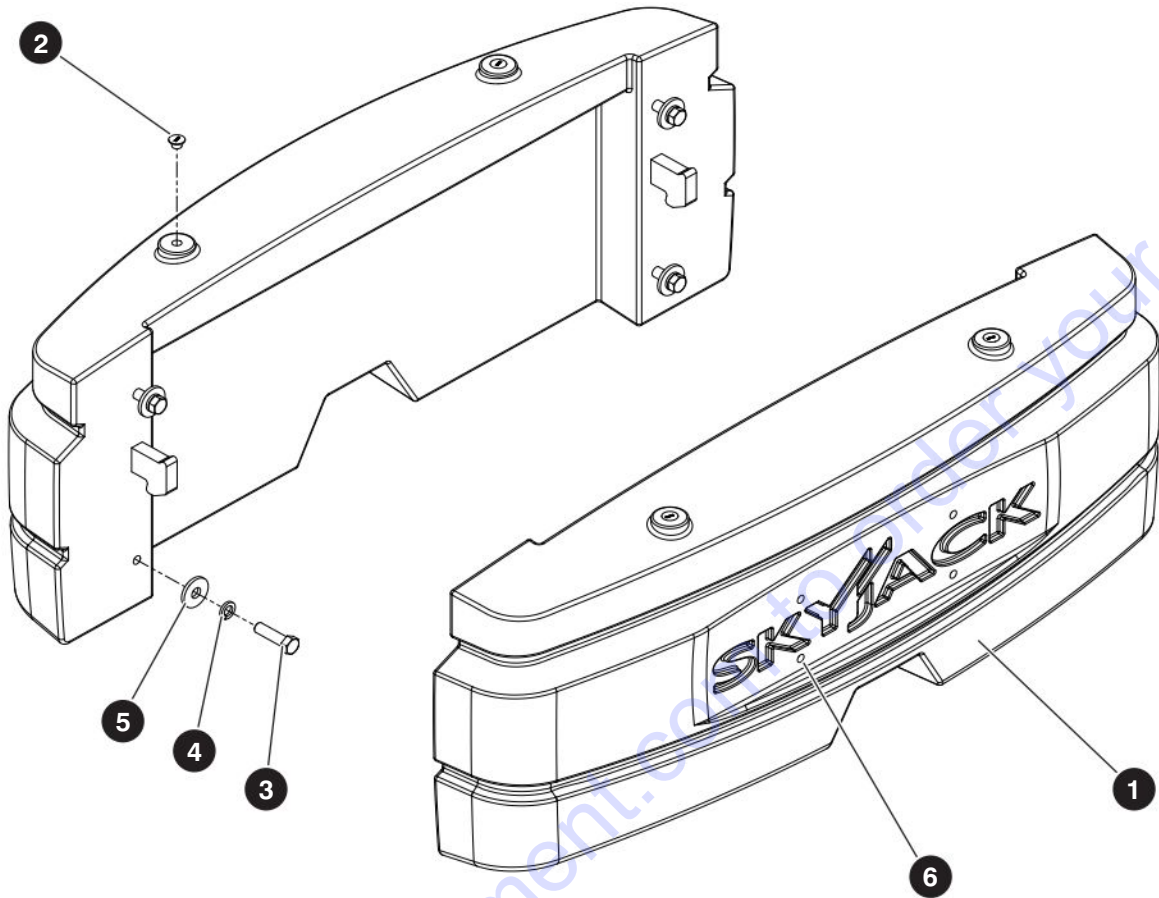
# 5.18 Tires



M166712AC

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	165226	1	WHEEL SET - FOAM TIRES ( <i>Standard</i> )
-	166712	2	• WHEEL ASSEMBLY, Left hand
-	166713	2	• WHEEL ASSEMBLY, Right hand
1	166710	1	• • TIRE (R4 16-625 16PR), OTR
2	166711	1	• • RIM (24.5 x 15 - 2.75" offset)
3	144309	1	• • VALVE STEM, OTR
4	166013	322 lbs	• • FOAM FILL, 32 duro 60/40
<b>B</b>	165229	1	WHEEL SET - NON-MARKING FOAM TIRES ( <i>Optional</i> )
-	167116	2	• WHEEL ASSEMBLY, Left hand
-	167117	2	• WHEEL ASSEMBLY, Right hand
1	167105	1	• • TIRE (R4 16-625 16PR), OTR
2	166711	1	• • RIM (24.5 x 15 - 2.75" offset)
3	144309	1	• • VALVE STEM, OTR
4	166013	322 lbs	• • FOAM FILL, 32 duro 60/40

## 5.19 Counterweight - Base

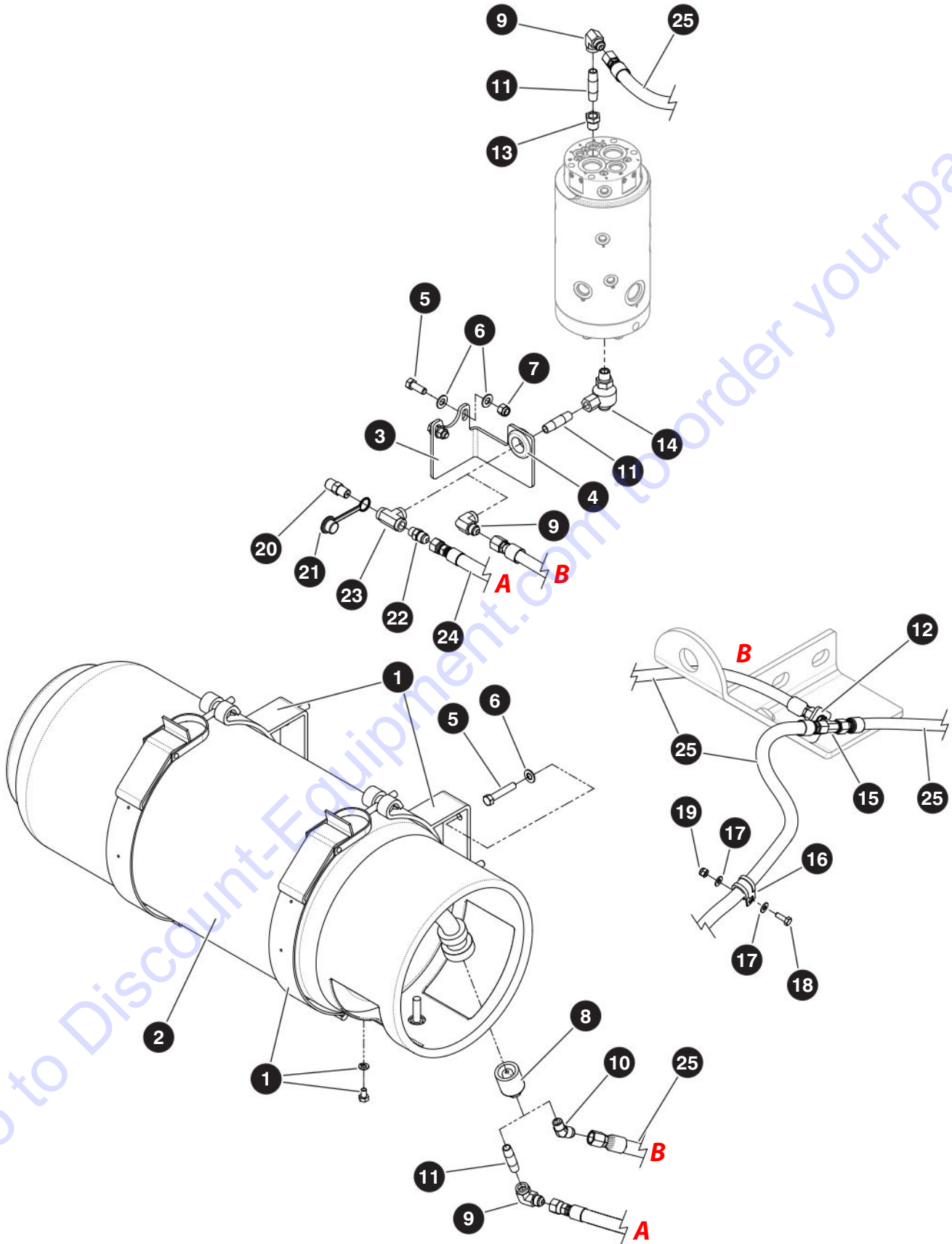


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Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	212854	1	CHASSIS COUNTERWEIGHT - <b>ANSI/CSA &amp; AS</b>
<b>B</b>	198490	1	CHASSIS COUNTERWEIGHT - <b>CE</b>
1	212855	2	• COUNTERWEIGHT, Chassis, <b>A</b>
	198067	2	• COUNTERWEIGHT, Chassis, <b>B</b>
2	144105	4	• PLUG, Threaded hole (0.75")
3	212320	8	• BOLT, Hex head (0.75"-10 x 3.00" gr 8)
4	104002	8	• WASHER, Lock (0.75")
5	146983	8	• WASHER, Counterweight
6	197516	8	• PLUG, Tapered (0.375")



## 5.20 Propane Tanks



M198196AB\_M198491AA-2

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## 5.20 Propane Tanks

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	198196	1	SINGLE PROPANE TANK - 44 lb tank
<b>B</b>	198491	1	DUAL PROPANE TANKS - 44 lb tank
1	144295	1	• PROPANE TANK MOUNTING KIT (pair), <b>A</b>
	144295	2	• PROPANE TANK MOUNTING KIT (pair), <b>B</b>
	221768	2	• • BRACKET, Propane tank
	221769	2	• • LATCH
	221770	1	• • PIN, Locating
	221771	2	• • SCREW, Sem
2	702253	1	• BOTTLE, Propane - 44 lb, <b>A</b>
	702253	2	• BOTTLE, Propane - 44 lb, <b>B</b>
3	161077	1	• BRACKET, Propane fitting retainer
4	144294	1	• GROMMET, Rubber
5	101297	6	• BOLT, Hex head (0.375-16" x 1.25" gr 5), <b>A</b>
	101297	10	• BOLT, Hex head (0.375-16" x 1.25" gr 5), <b>B</b>
6	103472	8	• WASHER, Flat (0.375"), <b>A</b>
	103472	10	• WASHER, Flat (0.375"), <b>B</b>
7	104606	2	• NUT, Lock (0.375"-16)
8	103006	1	• COUPLING, Quick, <b>A</b>
	103006	2	• COUPLING, Quick, <b>B</b>
9	144334	2	• FITTING, 90° (06SAE45M-04NPTM), <b>A</b>
	144334	3	• FITTING, 90° (06SAE45M-04NPTM), <b>B</b>
10	103159	2	• FITTING, 90° (06SAE45M-04NPTM), <b>B</b>
11	143478	3	• FITTING, Nipple (04NPT x 2" lg brass), <b>A</b>
	143478	2	• FITTING, Nipple (04NPT x 2" lg brass), <b>B</b>
12	211860	1	• BRACKET, Shuttle tee, <b>B</b>
13	100385	1	• FITTING, Straight (06MP-04FP)
14	702239	1	• FITTING, 90° live swivel (04NPTF-06NPTM)
15	123062	1	• VALVE, Shuttle tee (LP), <b>B</b>
16	152402	1	• CLAMP, Tube (0.75"), <b>B</b>
17	103995	2	• WASHER, Flat (0.25"), <b>B</b>
18	103856	1	• BOLT, Hex head (0.25"-20 x 0.75" gr 5), <b>B</b>
19	115649	1	• NUT, Lock (0.25"-20 gr 5 nylon), <b>B</b>
20	300799	1	• VALVE, Relief,
21	111622	1	• CAP, Rain, <b>A</b>
22	103156	1	• FITTING, Straight (06SAE45M-04NPTM), <b>A</b>
23	132919	1	• FITTING, Tee (04NPTF), <b>A</b>
24	(Ref.)	1	• HOSE, Propane (For components, refer to 8.9 Fuel Lines – Propane - Kubota WG3800)

# Section 6 – Engines

Engine Controls 6.16

Terminal Strips 6.17

Radiator - Deutz TD2.9L 6.3

Radiator - Deutz TCD2.2 6.5

Radiator - Kubota WG3800 6.11

Exhaust - Kubota WG3800 6.12

Engine - Deutz TD2.9L 6.1

Engine - Deutz TCD2.2 6.4

Engine - Deutz D2011 6.7

Engine - Kubota WG3800 6.9

Air Intake - Deutz TD2.9L 6.2

Air Intake - Deutz TCD2.2 6.6

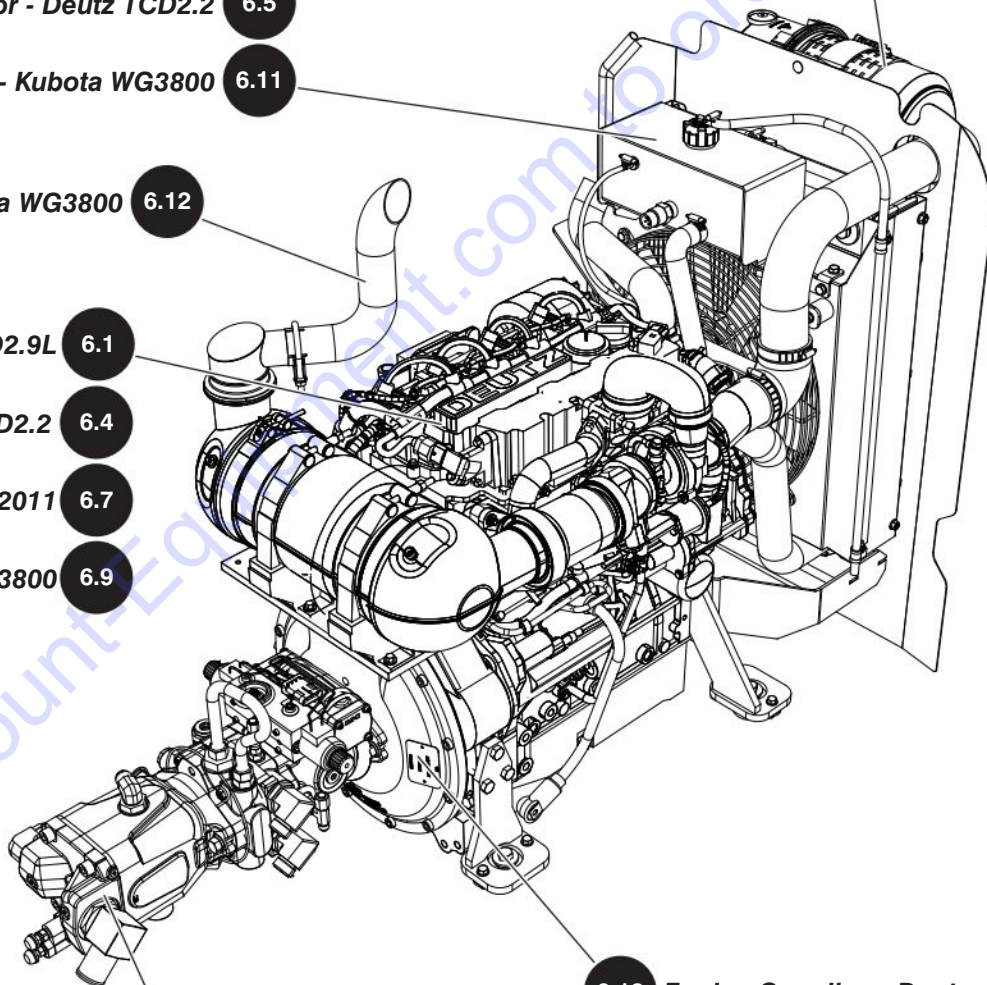
Air Intake - Deutz D2011 6.8

Air Intake - Kubota WG3800 6.10

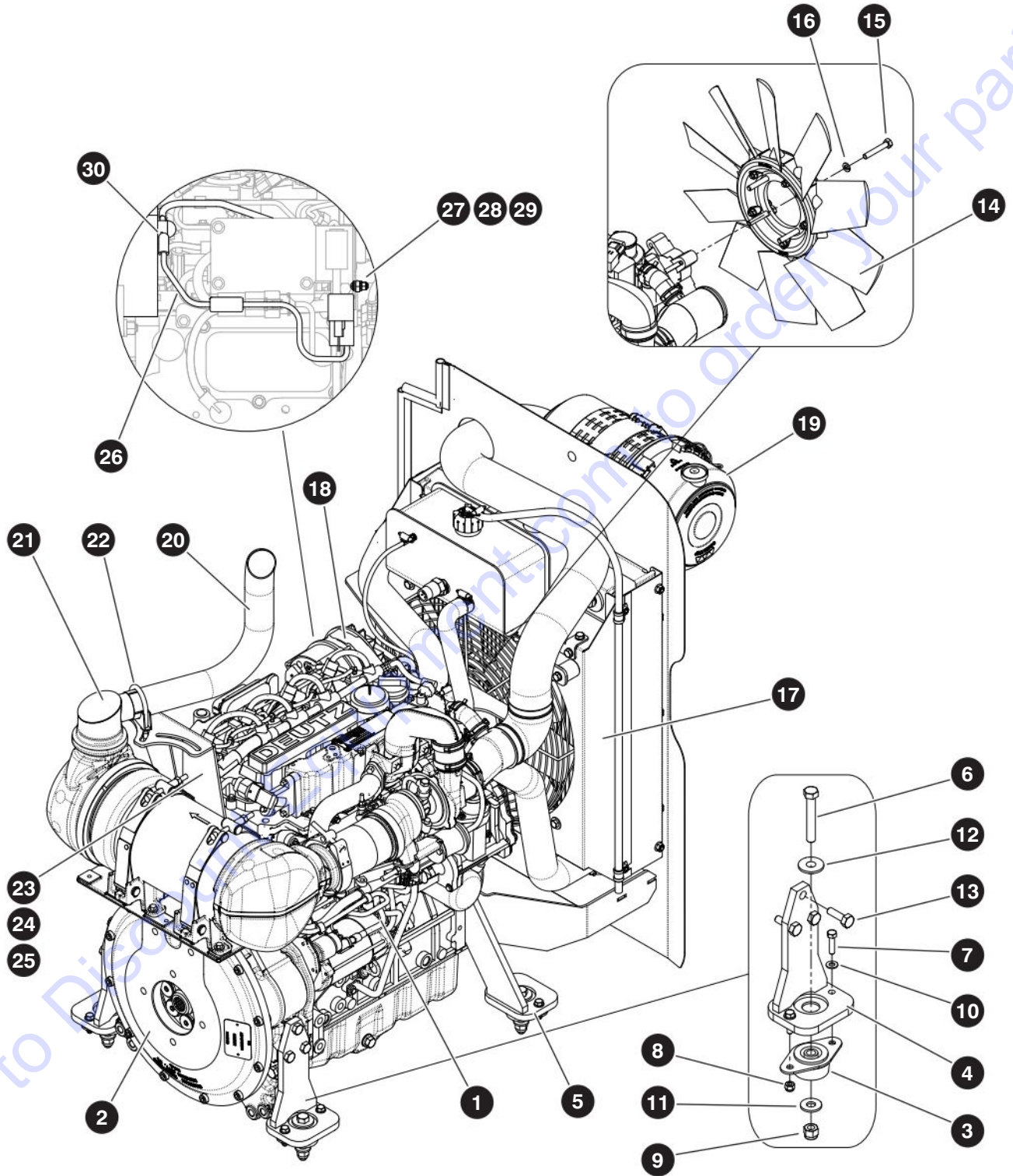
6.13 Engine Coupling - Deutz

6.14 Engine Coupling - Kubota

6.15 Drive & System Pumps



# 6.1 Engine - Deutz TD2.9L



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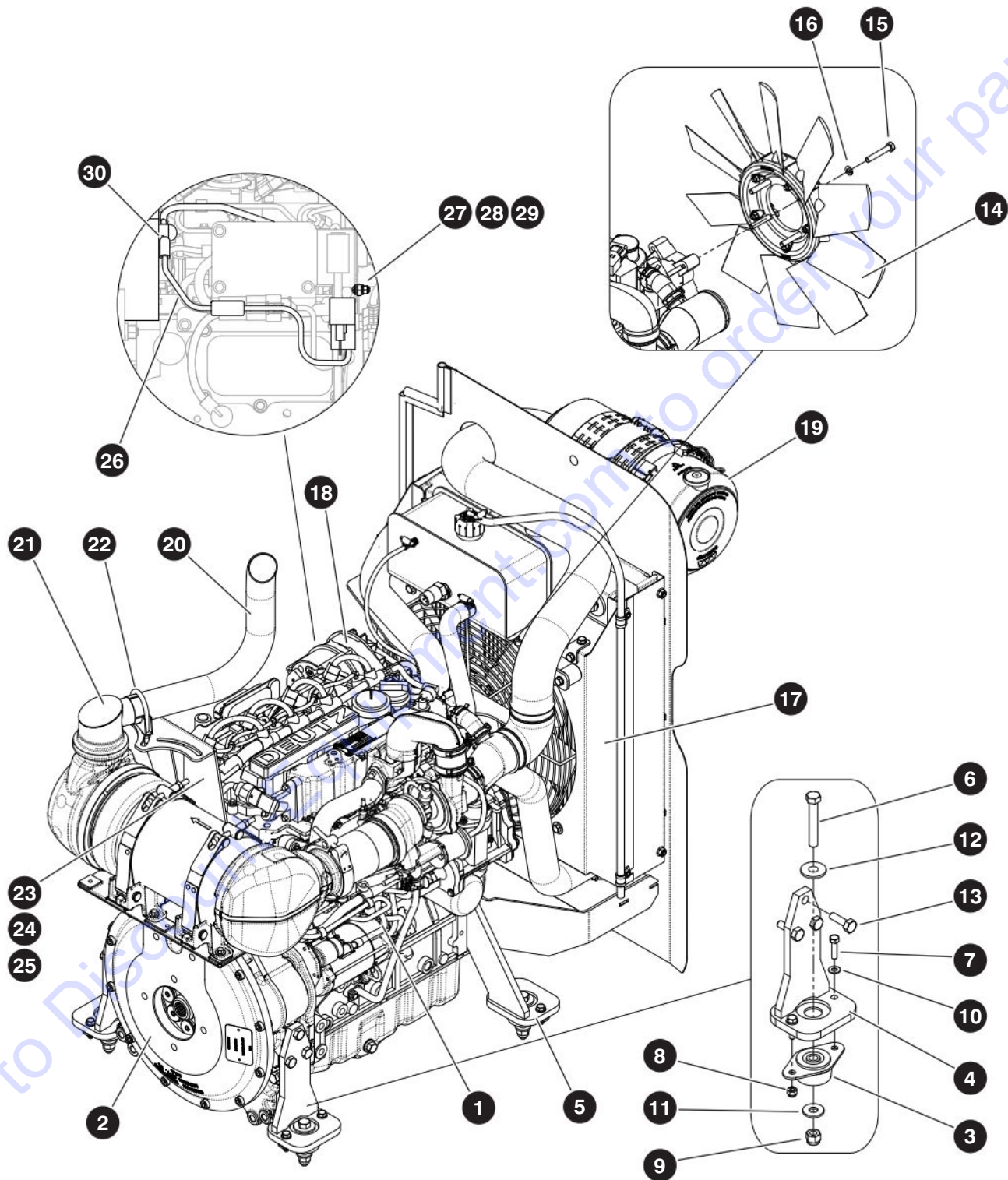
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## 6.1 Engine - Deutz TD2.9L

Index No.	Skyjack Part No.	Qty.	Description
-	198063	1	DEUTZ TD2.9L ENGINE ASSEMBLY - <b>ANSI/CSA &amp; CE</b>
1	213096	1	• ENGINE, Diesel - Deutz, TD2.9L
	147072	1	• • FILTER, Oil
	164770	1	• • PUMP, Fuel
	164771	1	• • FILTER, Fuel
	164772	1	• • PRE-FILTER, Fuel
	166689	1	• • CAP, Oil filler
	166690	1	• • DIPSTICK
	166691	1	• • PLUG, Oil pan drain
	166692	1	• • STARTER, 3.2kW
	166693	1	• • ALTERNATOR
	166694	1	• • BELT, Alternator and water pump
	166695	1	• • GASKET SET
	166696	1	• • PUMP, Coolant
	166697	1	• • TURBOCHARGER
	166698	1	• • PLUG, Glow
	166699	1	• • THERMOSTAT
	166700	1	• • SENSOR, Fuel pressure
	166701	1	• • SENSOR, Mag pick-up
	166702	1	• • SENSOR, Coolant temperature
	166703	1	• • SENSOR, Oil pressure
	166704	1	• • SENSOR, Intake air pressure
	166705	1	• • SENSOR, Intake air temperature
	194225	1	• • WIRE, Starter
	194080	1	• • DOC, <b>B</b>
	199169	1	• • OUTLET, DOC, <b>A</b>
-	167211	1	• ENGINE COUPLING INSTALLATION
2	(Ref.)	1	• • ENGINE COUPLING ASSEMBLY (For components, refer to 6.13 Engine Coupling - Deutz)
-	167210	1	• • ENGINE MOUNTS ASSEMBLY, TD2.9L
3	163028	4	• • • MOUNT, Vibration
4	163051	2	• • • MOUNT, Rear engine
	163047	1	• • • MOUNT, Front LH (not shown)
5	163049	1	• • • MOUNT, Front RH
6	103469	4	• • • BOLT, Hex head (1/2"-13 x 3 1/4" Grade 5)
7	112532	8	• • • BOLT, Hex head (5/16"-18 x 1 1/4" Grade 5)
8	103984	8	• • • NUT, Hex nylon lock (5/16"-18 Grade 5)
9	702507	4	• • • NUT, Hex nylon lock (1/2"-13 Grade 5)
10	103996	8	• • • WASHER, Flat (5/16")
11	104379	4	• • • WASHER, Flat (1/2" hard)

# 6.1 Engine - Deutz TD2.9L



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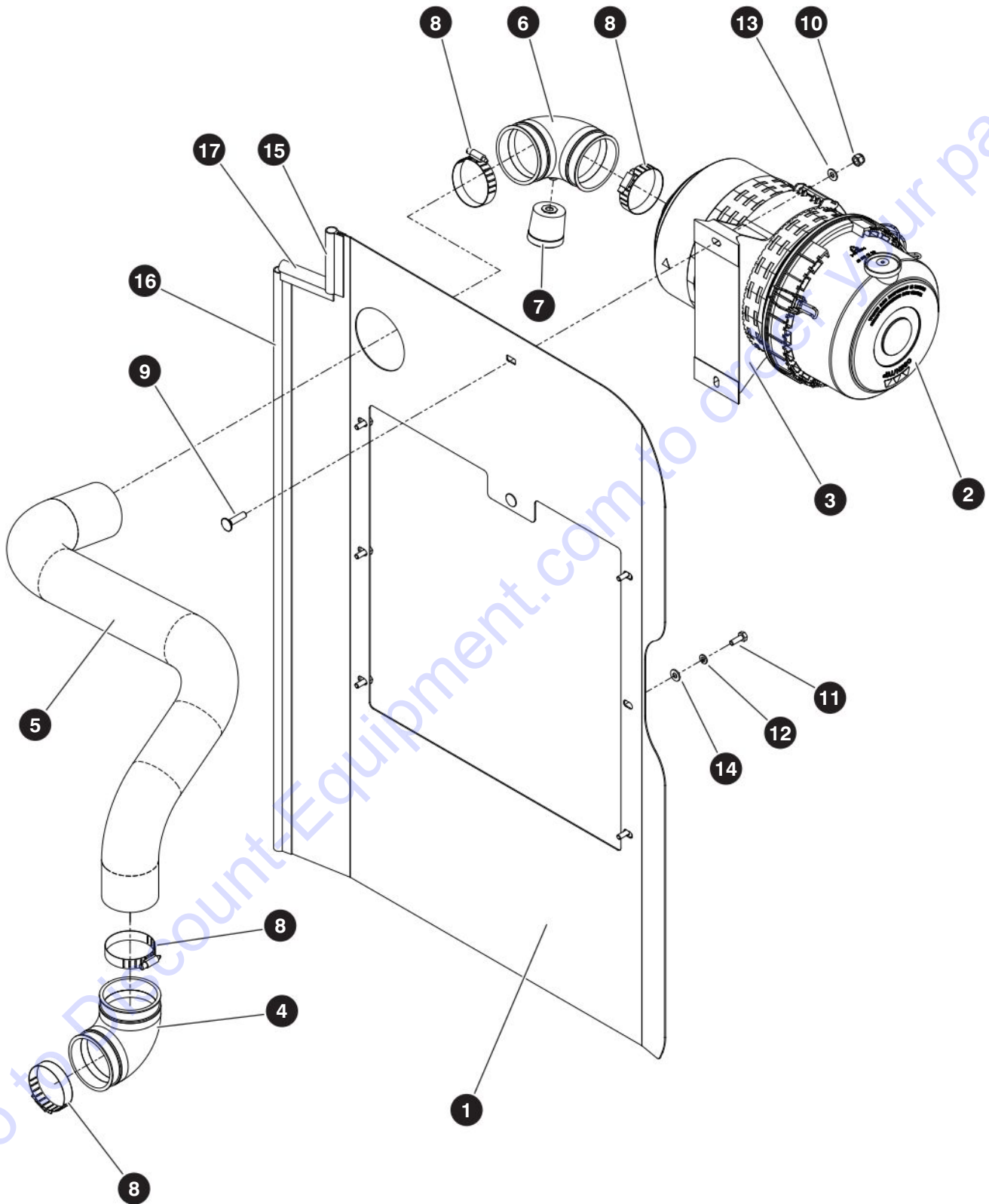
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## 6.1 Engine - Deutz TD2.9L

Index No.	Skyjack Part No.	Qty.	Description
12	163200	4	• • • WASHER, Engine mount snubbing
13	149419	10	• • • BOLT, Hex head (M12 x 1 3/4" x 35mm Grade 8.8)
-	165900	1	• FAN ASSEMBLY, TD2.9L
14	163223	1	• • FAN, TD2.9L (17")
15	133174	4	• • BOLT, Hex head (M8 x 1 1/4" x 20mm Grade 5 Zinc, DIN933)
16	116218	4	• • WASHER, Lock (M8-plated, DIN127B)
17	(Ref.)	1	• RADIATOR, TD2.9L (For components, refer to 6.3 Radiator - Deutz TD2.9L)
18	165602	1	• CABLE, Alternator TD2.9L
19	(Ref.)	1	• AIR INTAKE, Deutz TD2.9L (not shown) (For components, refer to 6.2 Air Intake - Deutz TD2.9L)
-	165818	1	• EXHAUST PIPE ASSEMBLY
20	164525	1	• • ADAPTER, Exhaust
21	164540	1	• • TAILPIPE, Deutz TD2.9
22	148377	1	• • CLAMP, Exhaust pipe (2")
23	194346	1	• • BRACKET, Exhaust - Deutz
24	133232	3	• • WASHER, Flat (M8)
25	133174	3	• • BOLT, Hex head (M8-1.25 X 20 GR 8.8)
-	165022	1	GLOW PLUG HARNESS ASSEMBLY
26	165028	1	• HARNESS, Glow plug
27	138834	1	• SCREW, Round head machine (#10-24 x 0.75")
28	104694	2	• WASHER, Flat (#10)
29	126642	1	• NUT, Hex head nylon lock (#10-24, Grade 5)
30	139106	1	• BOOT, Terminal (#4AWG)
31	(Ref.)	1	ENGINE HARNESS - Deutz TD2.9L (not shown) (For components, refer to 7.4 Engine Harness - Deutz TD2.9L)

## 6.2 Air Intake - Deutz TD2.9L



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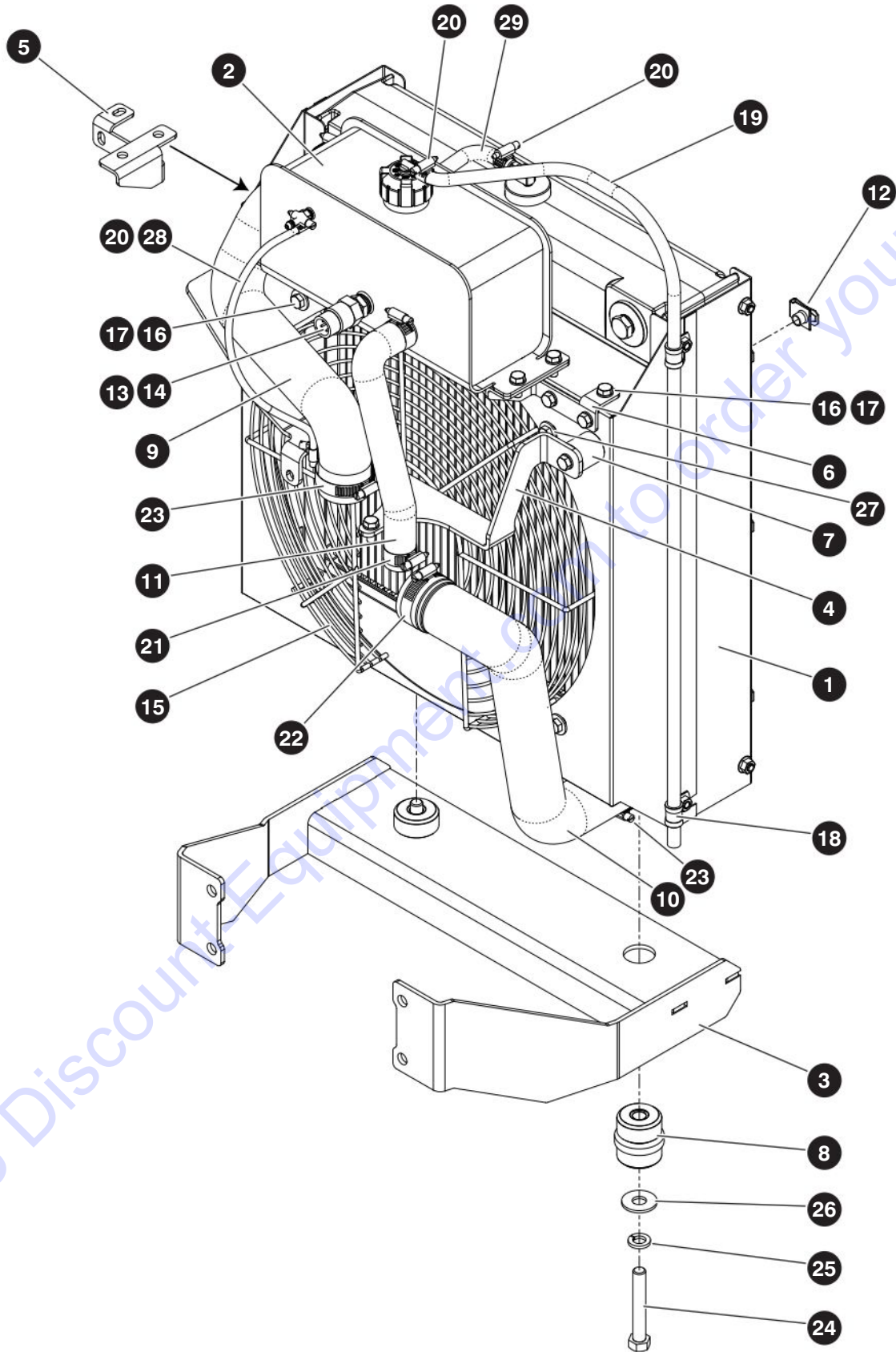
SJ85 AJ

SKYJACK

## 6.2 Air Intake - Deutz TD2.9L

Index No.	Skyjack Part No.	Qty.	Description
-	198064	1	AIR INTAKE, Deutz TD2.9L
1	198065	1	• SHROUD, Deutz TD2.9L
2	163243	1	• CLEANER, AIR - E300
	165949	1	• • ELEMENT, Primary
	165950	1	• • ELEMENT, Secondary
	194405	1	• • CAP, Air cleaner
3	163245	1	• BRACKET, Air cleaner
4	163248	1	• CONNECTOR, 90°
5	198073	1	• TUBE, Air intake
6	163249	1	• CONNECTOR, 90°
7	163250	1	• INDICATOR, Service
8	163193	4	• CLAMP, Gear (2.063" - 3.00")
9	106049	2	• BOLT, Carriage (0.3125"-18 x 1.25" gr 5)
10	103984	2	• NUT, Lock (0.31"-18 gr B)
11	103856	6	• BOLT, Hex head (0.25"-20 x 0.75" gr 5)
12	104000	6	• WASHER, Lock (0.25")
13	103996	2	• WASHER, Flat (0.31")
14	103995	6	• WASHER, Flat (0.25)
15	137625	4"	• TRIM, Rubber
16	137625	36"	• TRIM, Rubber
17	137625	4"	• TRIM, Rubber

## 6.3 Radiator - Deutz TD2.9L



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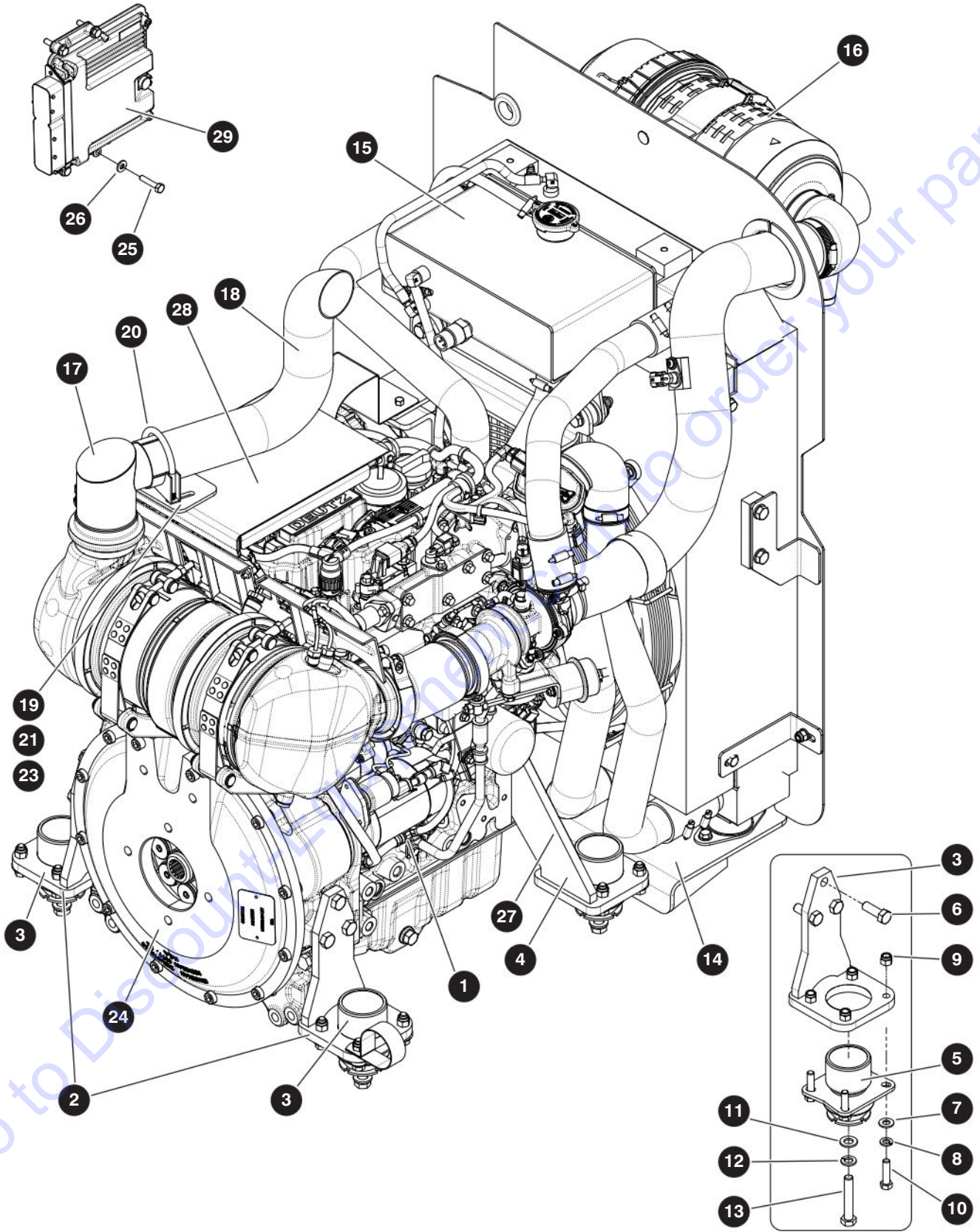
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## 6.3 Radiator - Deutz TD2.9L

Index No.	Skyjack Part No.	Qty.	Description
-	167931	1	RADIATOR ASSEMBLY, Deutz TD2.9L
1	163229	1	• RADIATOR, Deutz TD2.9L
	210168	1	• • SHROUD, Fan
2	163230	1	• RESERVOIR, Overflow, Deutz TD2.9L
	223207	1	• • CAP, Reservoir
-	220934	1	• KIT, Radiator, Deutz TD2.9L
3	194839	1	• • MOUNT, Radiator
4	221390	1	• • BRACKET, Upper radiator support
5	210223	1	• • MOUNT, Degas
6	210224	1	• • MOUNT, Degas
7	190430	2	• • ISOLATOR, Upper
8	132945	2	• • ISOLATOR, Lower
9	207694	1	• • HOSE, Radiator - return
10	207695	1	• • HOSE, Radiator - lower
11	207696	1	• • HOSE, Radiator - upper
12	149496	6	• NUT, Speed clip (1/4"-20 x 1/2" L)
13	165058	1	• SENSOR, Coolant level
14	166949	1	• WASHER, M16 Sealing
15	163394	1	• GUARD, Fan 17"
16	133174	17	• BOLT, Hex head (M8 x 1 1/4" x 20mm Grade 5 Zinc DIN933)
17	133232	13	• WASHER, Flat (M8 DIN126)
18	144129	2	• CLIP, Single (S332G10)
19	102984	45"	• FUEL LINE, 5/16" #4PB-B194
20	103321	3	• CLAMP, Gear (SAE #4, 1/4" - 5/8")
21	142415	2	• CLAMP, Gear (SAE #20, 3/4" - 1 3/4")
22	133222	1	• CLAMP, Gear (SAE #32, 1 9/16" - 2 1/2")
23	104528	3	• CLAMP, Gear (SAE #28, 1 5/16" - 2 1/4")
24	103469	2	• BOLT, Hex head (1/2"-13 x 3 1/4" Grade 5)
25	103470	2	• WASHER, Lock (1/2" Grade 5)
26	137241	1	• WASHER, Fender (1/2" ID)
27	166164	4	• WASHER, Flat (5/16" Standard)
28	160366	13"	• FUEL LINE, 3/16"
29	166737	6"	• FUEL LINE, 5/16"



# 6.4 Engine - Deutz TCD2.2



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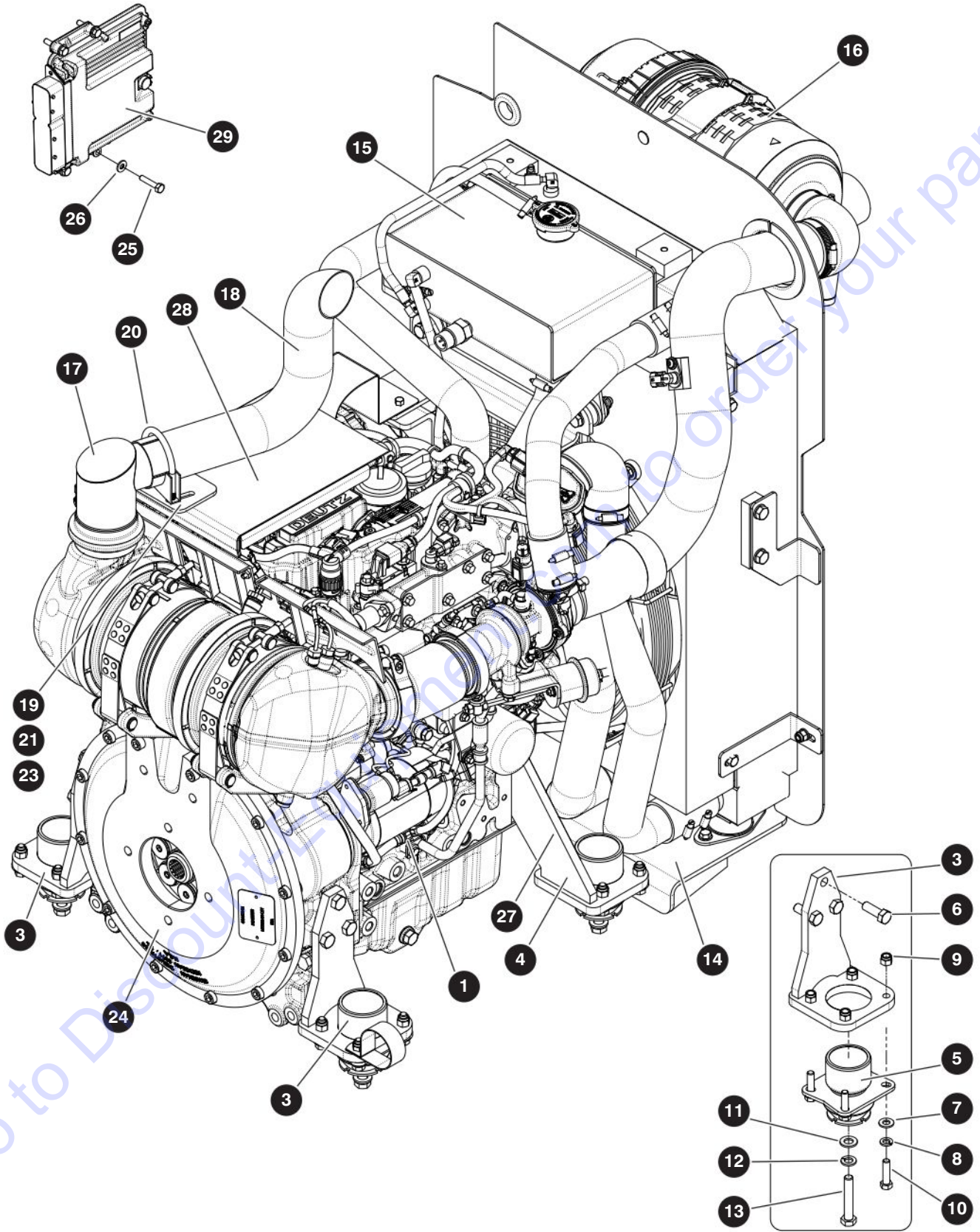
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## 6.4 Engine - Deutz TCD2.2

Index No.	Skyjack Part No.	Qty.	Description
-	226277	1	ENGINE ASSEMBLY - <b>Deutz TCD2.2</b>
1	223249	1	• ENGINE, Diesel - Deutz TCD2.2
	224309	1	• • FILTER, Oil
	224314	1	• • PUMP, Fuel
	224320	1	• • FILTER, Fuel
	224322	1	• • • CARTRIDGE, Fuel filter
	224315	1	• • • SENSOR, Pressure
	224323	1	• • PRE-FILTER, Fuel
	224323	1	• • • CARTRIDGE, Fuel pre-filter
	169249	1	• • • CABLE, Sensor - pre-filter
	166689	1	• • CAP, Oil filler
	224308	1	• • DIPSTICK
	224584	1	• • PLUG, DRAIN - Oil pan
	224585	1	• • O-RING, Drain plug
	224307	1	• • STARTER
	224588	1	• • SWITCH, Solenoid - starter
	224312	1	• • RELAY, Starter
	224310	1	• • ALTERNATOR
	166694	1	• • BELT, Alternator and water pump
	224304	1	• • FAN
	224316	1	• • PUMP, Coolant
	229045	1	• • PLUG, Glow
	224586	1	• • INJECTOR
	224587	1	• • THERMOSTAT
	166701	1	• • SENSOR, Mag pick-up
	224318	1	• • SENSOR, Temperature
	196886	1	• • SENSOR, Tacho-generator
	224589	1	• • SENSOR, Pressure
	224305	1	• • INLET, Catalyst
	224319	1	• • OUTLET, Catalyst
	206788	1	• • HEATER, Immersion
2	226251	1	• ENGINE MOUNTS - Deutz D2.9L
3	226252	2	• • MOUNT, Rear engine
4	225257	1	• • MOUNT, Front RH
	225255	1	• • MOUNT, Front LH (not shown)
5	232359	4	• • MOUNT, Vibration - Deutz
6	149419	10	• • BOLT, Hex head (M12 x 1.75" x 35mm, Grade 8.8)
7	125959	16	• • WASHER, Flat (3/8" hard)
8	103999	16	• • WASHER, Lock (3/8")
9	104606	16	• • NUT, Hex nylon lock (3/8"-16, Grade 5)
10	103870	16	• • BOLT, Hex head (3/8"-16-18 x 1-1/2", Grade 5)
11	933817	4	• • WASHER, Flat (M12)
12	600549	4	• • WASHER, Lock (M12)
13	217868	4	• • BOLT, Hex head (M12 x 1.75 x 70, cl 10.9)
14	(Ref.)	1	• RADIATOR MOUNT (For components, refer to 6.5 Radiator - Deutz TCD2.2)

# 6.4 Engine - Deutz TCD2.2



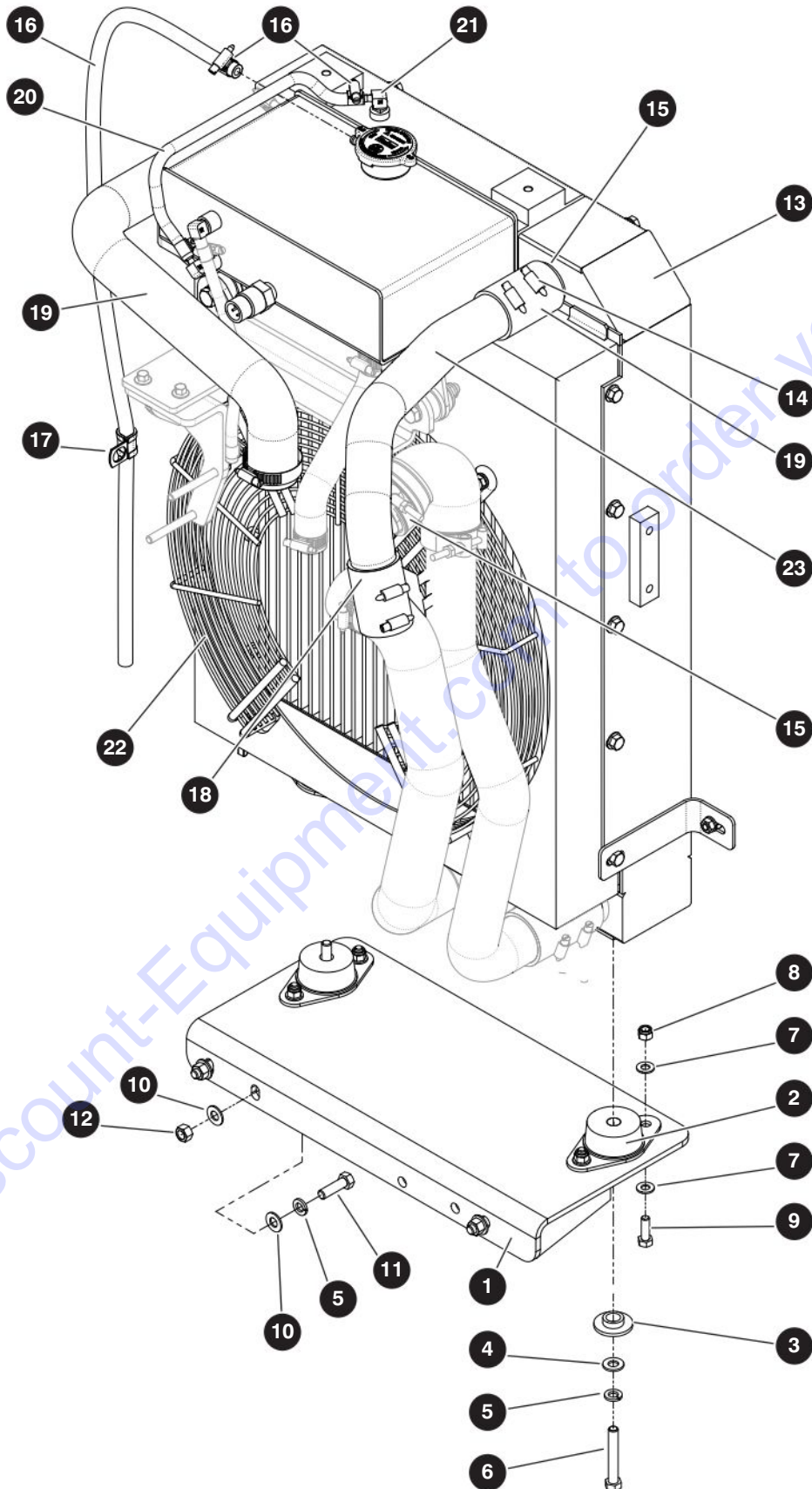
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## 6.4 Engine - Deutz TCD2.2

Index No.	Skyjack Part No.	Qty.	Description
15	(Ref.)	1	<ul style="list-style-type: none"> <li>RADIATOR (For components, refer to 6.5 Radiator - Deutz TCD2.2)</li> </ul>
16	(Ref.)	1	<ul style="list-style-type: none"> <li>AIR INTAKE ASSEMBLY (For components, refer to 6.6 Air Intake - Deutz TCD2.2)</li> </ul>
-	226241	1	<ul style="list-style-type: none"> <li>EXHAUST ASSEMBLY</li> </ul>
17	226247	1	<ul style="list-style-type: none"> <li>ADAPTER, Exhaust</li> </ul>
18	226242	1	<ul style="list-style-type: none"> <li>TAIL PIPE</li> </ul>
19	226243	1	<ul style="list-style-type: none"> <li>BRACKET, Exhaust</li> </ul>
20	167788	1	<ul style="list-style-type: none"> <li>CLAMP, U-bolt (2-1/2" x 9/16")</li> </ul>
21	933833	2	<ul style="list-style-type: none"> <li>WASHER, Flat (M10 OD 20)</li> </ul>
22	217865	2	<ul style="list-style-type: none"> <li>BOLT, Hex head (M10 x 1.5 x 75, cl 10.9)</li> </ul>
23	231325	1	<ul style="list-style-type: none"> <li>CABLE, Alternator (not shown)</li> </ul>
24	(Ref.)	1	<ul style="list-style-type: none"> <li>ENGINE COUPLING (For components, refer to 6.13 Engine Coupling - Deutz)</li> </ul>
25	103858	4	<ul style="list-style-type: none"> <li>BOLT, Hex head (1/4"-20 x 1-1/4", gr. 5)</li> </ul>
26	103995	4	<ul style="list-style-type: none"> <li>WASHER, Flat (1/4")</li> </ul>
27	119922	6	<ul style="list-style-type: none"> <li>PROTECTIVE TRIM (1/4 - 1/2)</li> </ul>
28	232447	1	<ul style="list-style-type: none"> <li>HEAT SHIELD ASSEMBLY</li> </ul>
	232450	1	<ul style="list-style-type: none"> <li>SHIELD, Heat</li> </ul>
	232448	1	<ul style="list-style-type: none"> <li>BARRIER, Adhesive-backed</li> </ul>
29	224303	1	ECU

## 6.5 Radiator - Deutz TCD2.2



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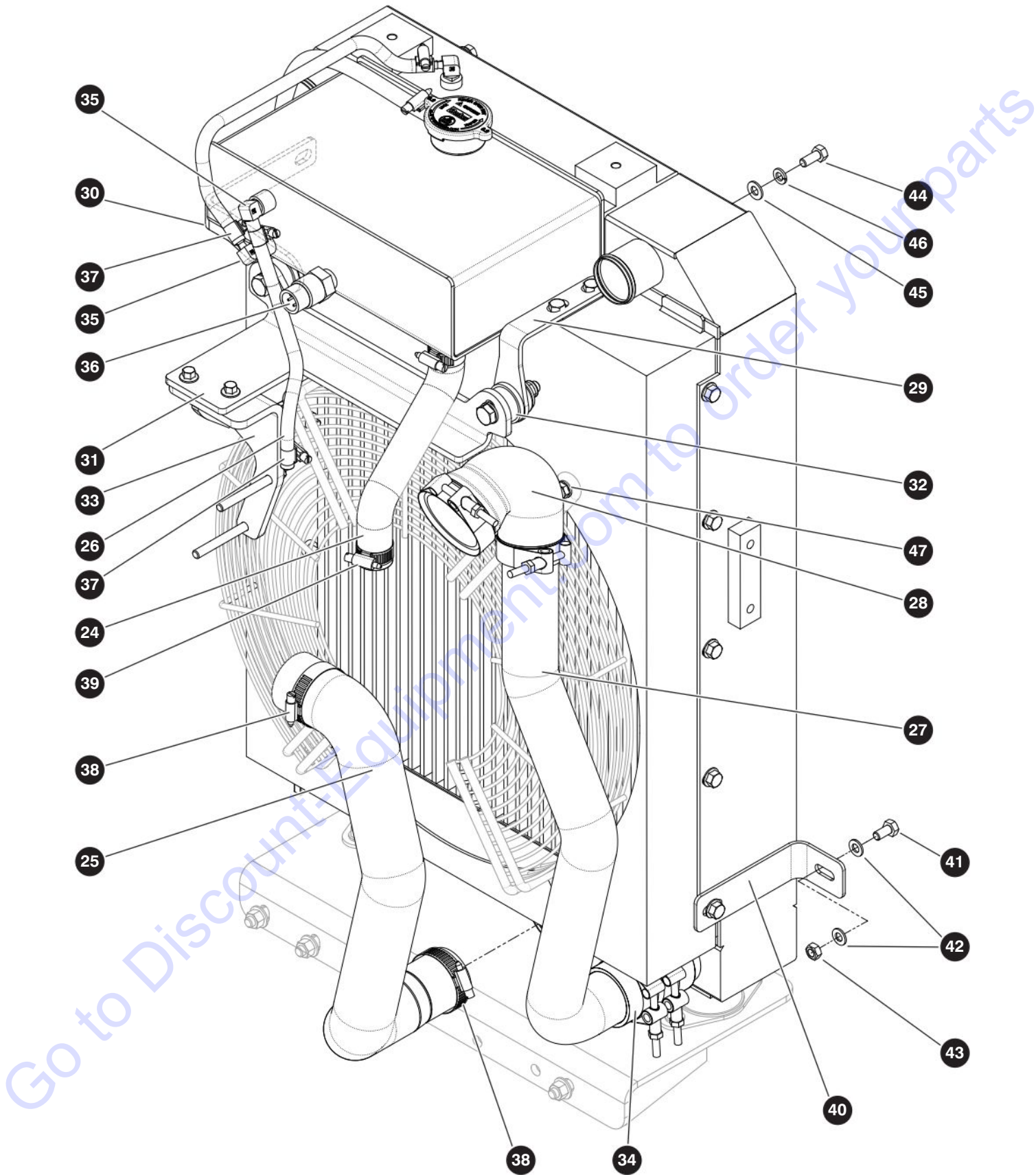
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## 6.5 Radiator - Deutz TCD2.2

Index No.	Skyjack Part No.	Qty.	Description
-	226264	1	RADIATOR MOUNT - <i>Deutz TCD2.2</i>
1	226265	1	• MOUNT, Radiator
2	163028	2	• MOUNT, Vibration
3	163200	2	• WASHER, Snubbing
4	125959	2	• WASHER, Flat (3/8" hard)
5	103999	5	• WASHER, Lock (3/8")
6	103873	2	• BOLT, Hex head (3/8"-16 x 2-1/2", gr 5)
7	103996	8	• WASHER, Flat (5/16")
8	103984	4	• NUT, Lock (5/16"-18, gr 5 nylon)
9	103864	4	• BOLT, Hex head (5/16"-16 x 1", gr 5)
10	103472	6	• WASHER, Flat (3/8")
11	117430	3	• BOLT, Hex head (3/8"-16 x 1-1/4", gr 8)
12	103978	3	• NUT, Hex (3/8" gr 5)
-	226268	1	RADIATOR - <i>Deutz TCD2.2</i>
13	206955	1	• RADIATOR
14	104528	6	• CLAMP, Hose (1-3/4")
15	121869	1	• CLAMP, Hose (2-1/2")
16	102984	40"	• FUEL LINE (5/16")
17	144129	2	• CLAMP, Loop cushioned (#10)
-	226269	1	• HOSE AND BRACKET KIT
18	230696	4	• • SLEEVE, Rubber
19	206958	1	• • HOSE, Water
20	224579	1	• • HOSE (1/4" x 23")
21	206966	1	• • FITTING, Hose barb (90° 1/4" NPT)
22	226275	1	• • GUARD, Fan
23	206956	1	• • PIPING, Charge air - upper
			<i>The parts list continues on the next page.</i>



# 6.5 Radiator - Deutz TCD2.2



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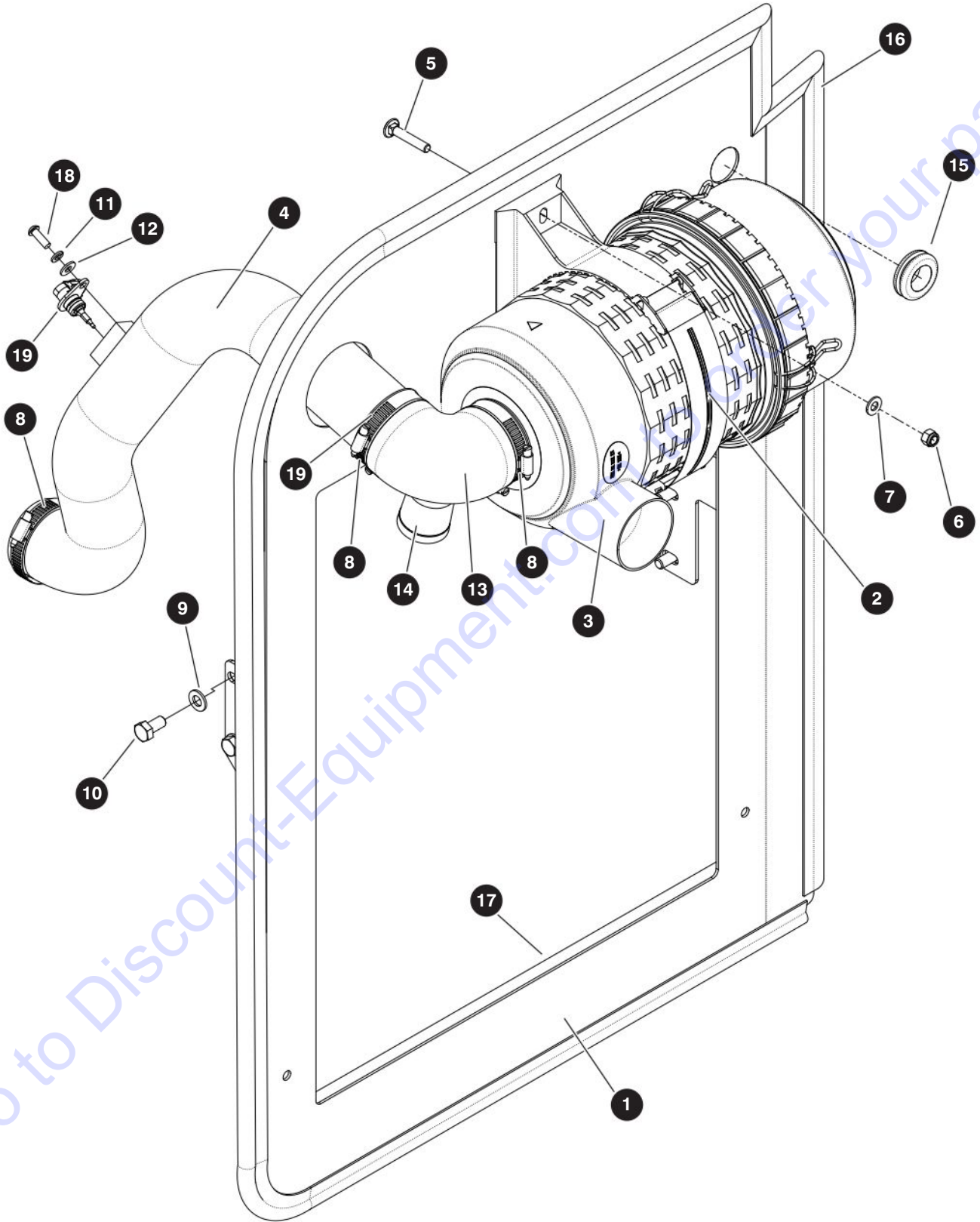
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## 6.5 Radiator - Deutz TCD2.2

Index No.	Skyjack Part No.	Qty.	Description
			<i>The parts list continues from the previous page.</i>
24	206960	1	• • HOSE, Compensation
25	230697	1	• • HOSE, Coolant - lower
26	206968	1	• • HOSE (1/4" x 12")
27	224582	1	• • PIPING, Charge air - lower
28	232513	1	• • ELBOW, CAC
29	232511	1	• • BRACKET, Right
30	232512	1	• • BRACKET, Left
31	230699	1	• • BRACKET, Center
32	224580	2	• • ISOLATOR
33	232514	1	• • PLATE, Retaining
34	230698	1	• • SLEEVE, Rubber
35	206966	2	• • FITTING, Hose barb (90° 1/4" NPT)
36	165058	1	• SENSOR, Coolant level
37	102519	5	• CLAMP, Hose (3/8")
38	133222	5	• CLAMP, Hose ( 2")
39	142415	2	• CLAMP, Hose ( 1-1/4")
40	231321	2	• BRACKET, Baffle plate
41	133174	2	• BOLT, Hex head (M8 x 1325 x 16 mm, gr 8.8)
42	133232	4	• WASHER, Flat (M8)
43	933696	2	• NUT, HEx head (M8-1.25, gr 5)
44	103864	2	• BOLT, Hex head (5/16"-18 x 3/4")
45	103996	2	• WASHER, Flat (5/16")
46	103404	2	• WASHER, Lock (5/16")
47	166164	4	• WASHER, Flat (5/16")

## 6.6 Air Intake - Deutz TCD2.2



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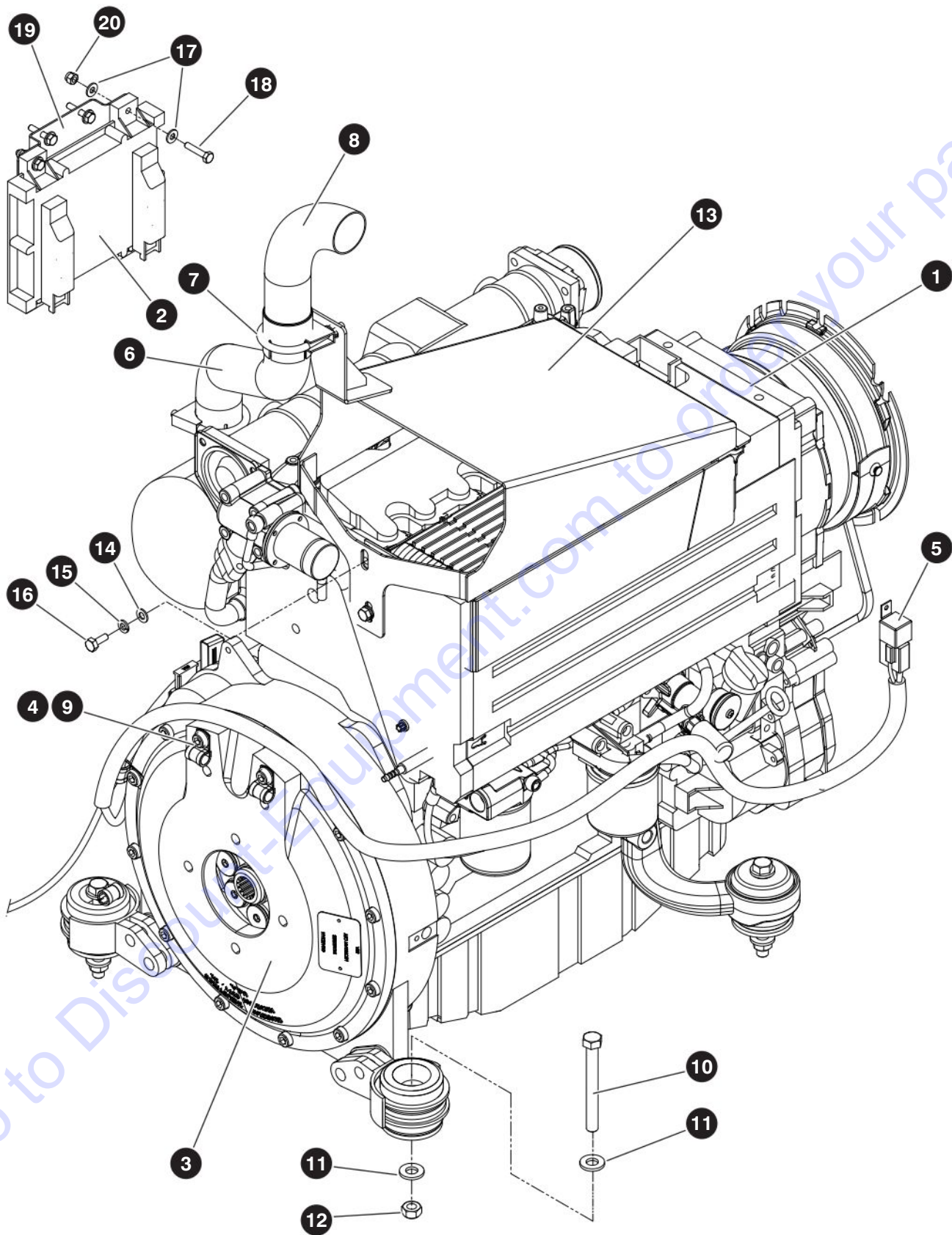
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## 6.6 Air Intake - Deutz TCD2.2

Index No.	Skyjack Part No.	Qty.	Description
-	226259	1	AIR INTAKE ASSEMBLY - <b>Deutz TCD2.2</b>
1	226260	1	• PLATE, Baffle
2	163245	1	• BRACKET, Air cleaner - E300
3	163243	1	• AIR CLEANER - E300
	165949	1	• • ELEMENT, Primary
	165950	1	• • ELEMENT, Secondary
	194405	1	• • CAP, Air cleaner
4	228734	1	• TUBE, Air intake
5	158380	2	• BOLT, Carriage (5/16"-18 x 1-3/4", gr 5)
6	103984	2	• NUT, Lock (5/16"-18, gr 5 nylon)
7	103996	2	• WASHER, Flat (5/16")
8	163193	3	• CLAMP, Hose ( 3")
9	933833	4	• WASHER, Flat (M10-OD 20)
10	103847	4	• BOLT, Hex head (M10-1.25 x 20 mm, gr 8.8)
11	104000	1	• WASHER, Lock (1/4")
12	103995	1	• WASHER, Flat (1/4")
13	163249	1	• CONNECTOR, 90° - service indicator
14	163250	1	• INDICATOR, Service
15	144294	1	• GROMMET, Rubber (1" x 1-3/8" x 3/16")
16	137625	43"	• TRIM, Rubber
17	231324	93"	• TRIM, Rubber
18	151596	1	• BOLT, Button head cap screw (1/4"-20 x 3/4")
19	117398	10"	• TRIM, Protective
20	224625	1	SENSOR, Ambient temperature (supplied with the engine)

## 6.7 Engine - Deutz D2011



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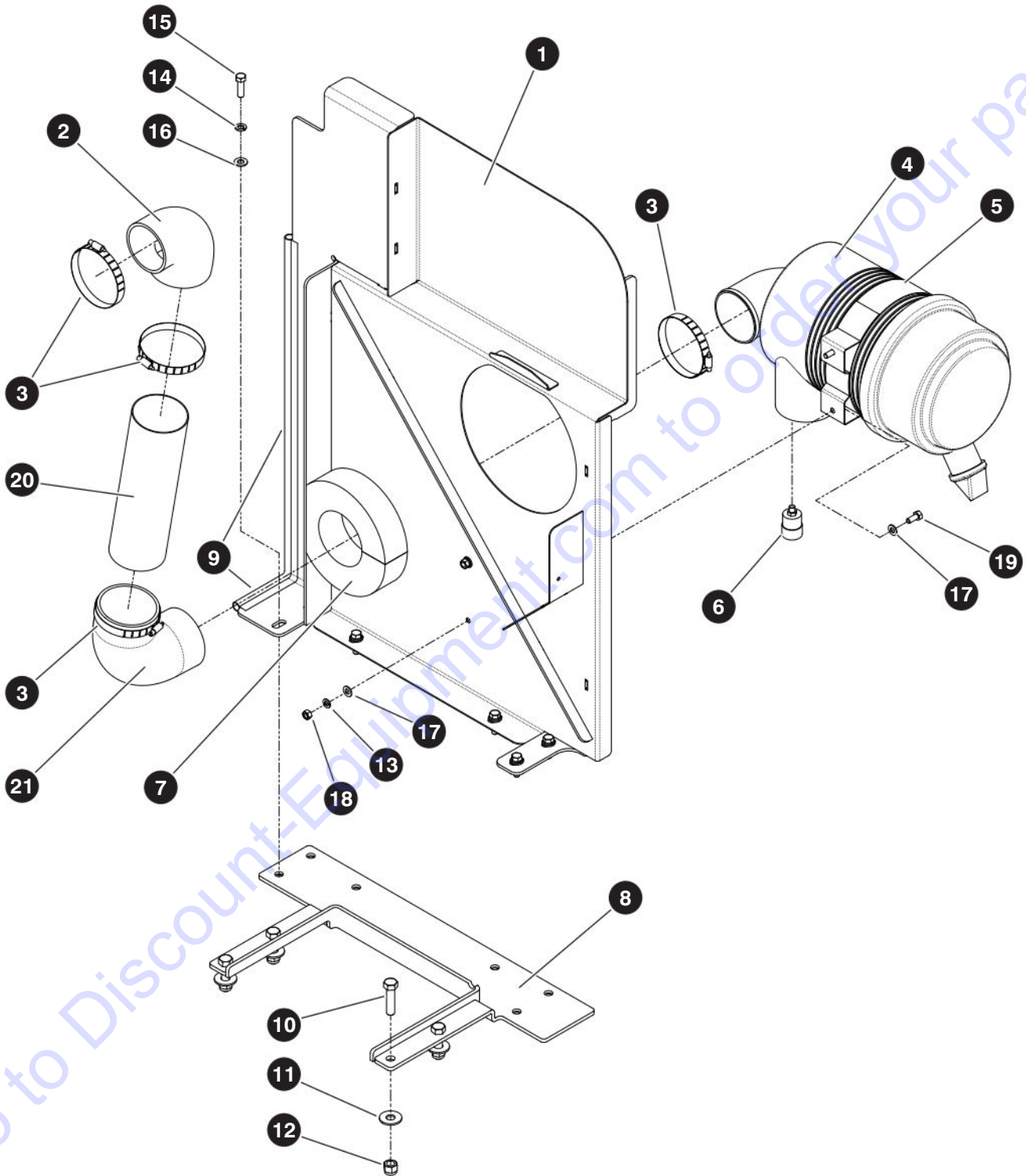
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## 6.7 Engine - Deutz D2011

Index No.	Skyjack Part No.	Qty.	Description
-	198293	1	DEUTZ D2011 ENGINE ASSEMBLY
1	167739	1	• ENGINE, Diesel (Deutz D2011)
	127181	1	• • PUMP, Fuel injection
	127182	1	• • CAP, Filler
	127183	1	• • FLYWHEEL
	127184	1	• • CONNECTOR, Plug-in
	127185	1	• • CONNECTOR, Plug-in
	127186	1	• • CABLE, Interconnect
	204249	1	• • STARTER
	151769	1	• • EXHAUST, Silencer
	151770	1	• • V-BELT, Narrow
	147071	1	• • FILTER, Fuel
	147072	1	• • FILTER, Oil
	157659	1	• • DIPSTICK
	168055	1	• • SOLENOID, Fuel
	168365	1	• • ALTERNATOR
	168366	1	• • SWITCH, Oil temperature
	168367	1	• • SENDER, Temperature
	194074	1	• • HARNESS, Starter
	194225	1	• • WIRE, Starter
	151770	1	• • BELT, Alternator
2	138725	1	• • ECU
3	(Ref.)	1	• COUPLING ASSEMBLY, Engine (For components, refer to 6.13 Engine Coupling - Deutz)
4	144129	4	• CLIP, Single
5	148472	1	• HARNESS, Glow plug
	138844	1	• • RELAY, 80A 12V
	138848	1	• • FUSE, 50A
6	198413	1	• STACK, Exhaust
7	148377	2	• CLAMP, Exhaust pipe (2")
8	198294	1	• TAILPIPE
9	103472	3	• WASHER, Flat (0.375")
10	111420	4	• BOLT, Hex head (0.50"-13 x 4.50" Grade 5)
11	104379	8	• WASHER, Flat hardened (0.50")
12	138791	4	• NUT, Torque lock (0.50"-13 Grade C)
13	198416	1	• DEFLECTOR, Air
14	133232	2	• WASHER, Flat (M8)
15	116218	2	• WASHER, Lock (M8)
16	133174	2	• BOLT, Hex head (M8 1.25mm x 20mm Grade 8.8)
17	103995	12	WASHER, Flat (0.25")
18	103858	8	BOLT, Hex head (0.25"-20 x 1.25" gr 5)
19	198477	1	BRACKET, ECM mounting
20	115649	4	NUT, Lock (0.25"-20 gr 5)



## 6.8 Air Intake - Deutz D2011



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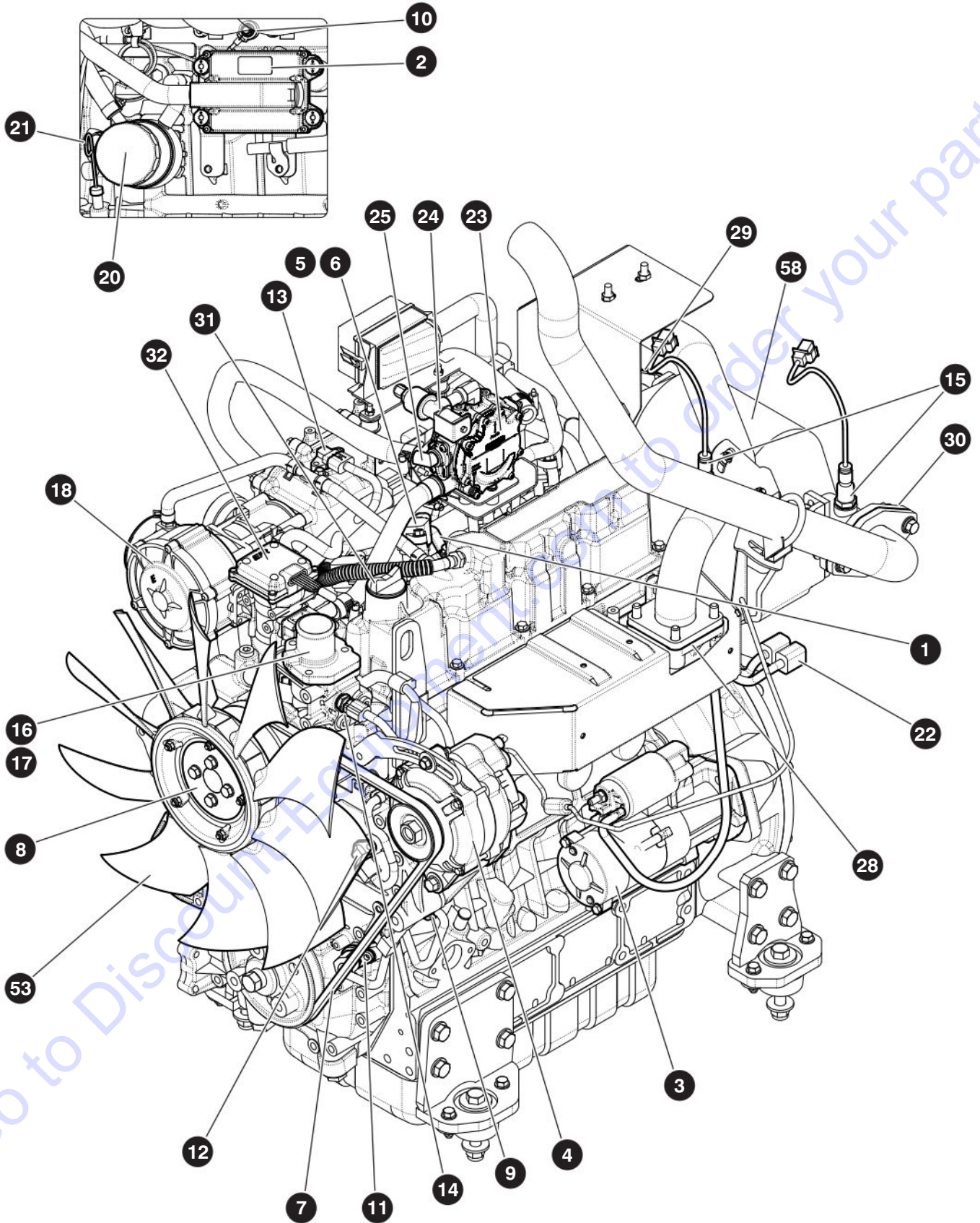
SKYJACK



## 6.8 Air Intake - Deutz D2011

Index No.	Skyjack Part No.	Qty.	Description
1	198414	1	• BAFFLE, Engine weldment
2	138508	1	• ELBOW, 90° Reducer (Air intake)
3	138665	4	• CLAMP, Gear (SAE No. 56)
4	703312	1	• AIR CLEANER, Engine
	704560	1	• • FILTER, Primary
	706549	1	• • FILTER, Secondary
5	703315	1	• BAND, Air cleaner mounting
6	139091	1	• INDICATOR, Air restriction
7	148368	24"	• FOAM, (2" x 2")
8	166657	1	• BRACKET, Baffle
9	149357	40"	• SEAL, Bulb
10	103904	4	• BOLT, Hex head (0.50"-13 x 2" Grade 5)
11	137241	4	• WASHER, Flat (0.50")
12	702507	4	• NUT, Hex nylon lock (0.50"-13 Grade 5)
13	103404	2	• WASHER, Lock (0.312")
14	103999	6	• WASHER, Lock (0.375")
15	101297	6	• BOLT, Hex head (0.375"-16 x 1.25" gr 5)
16	125959	6	• WASHER, Flat hardened (0.375")
17	103996	4	• WASHER, Flat (0.3125")
18	100397	2	• NUT, Hex head (0.3125"-18 Grade 5)
19	103887	2	• BOLT, Hex head (0.3125"-18 x 0.75" Grade 5)
20	168744	1	• TUBE, Air intake (3.5" OD x 11.5" lg)
21	168743	1	• ELBOW (3.5" x 3.5" x 90 °)

## 6.9 Engine - Kubota WG3800



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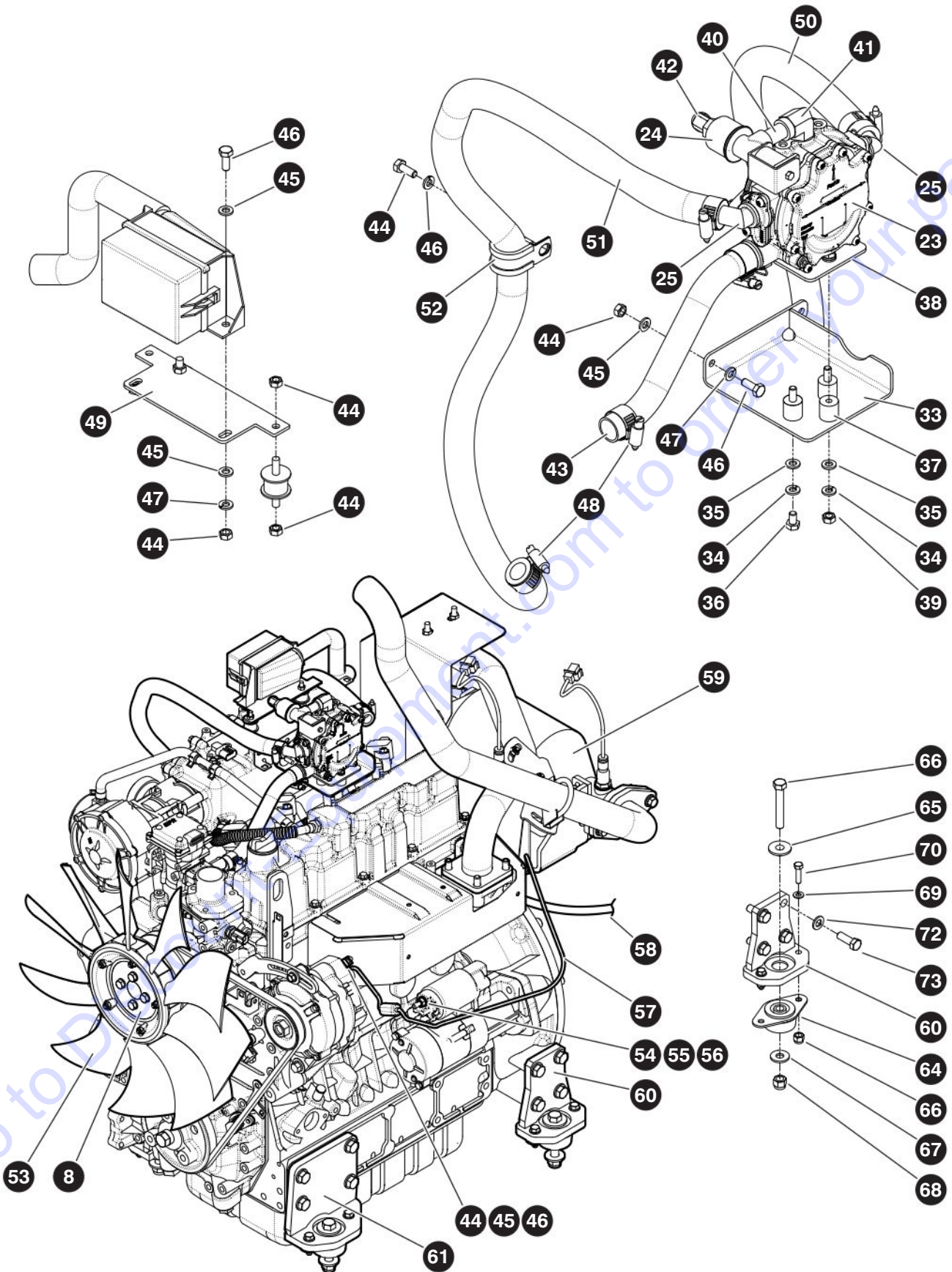
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## 6.9 Engine - Kubota WG3800

Index No.	Skyjack Part No.	Qty.	Description
-	197681	1	ENGINE ASSEMBLY - Kubota WG3800
-	197682	1	• ENGINE DUAL FUEL KUBOTA WG3800
1	212017	4	• • INJECTOR
2	212018	1	• • ECU
3	212002	1	• • STARTER
4	212003	1	• • ALTERNATOR
5	194658	4	• • SPARK PLUG
6	212023	1	• • COIL, Ignition
7	212004	1	• • BELT, Fan
8	212006	1	• • PULLEY, Fan
9	194647	1	• • SWITCH, Oil
10	212010	1	• • SENSOR, Knock
11	212011	1	• • SENSOR, Crank
12	212012	1	• • SENSOR, Cam
13	212013	1	• • SENSOR, TMAP
14	194662	1	• • SENSOR, Water temperature
15	164880	2	• • SENSOR, O2
16	212020	1	• • THERMOSTAT
17	212009	1	• • COVER, Thermostat
18	212014	1	• • MIXER
19	212005	1	• • SCREEN, Oil pump pickup (not shown)
20	212016	1	• • CARTRIDGE, Oil filter
21	212007	1	• • GAUGE, Oil
22	212019	1	• • WIRE HARNESS
23	212022	1	• • REGULATOR, Propane
24	164889	1	• • VALVE, Lockoff
25	164888	2	• • CONNECTOR, LP regulator
26	164881	1	• • PUMP, Fuel (located by fuel tank) (not shown)
27	136118	1	• • PRE-FILTER, Fuel (located by fuel tank) (not shown)
			(For components, refer to 8.8 Fuel Lines – Gasoline - Kubota WG3800)
28	212021	1	• • GASKET, Muffler
29	164885	1	• • GASKET, Muffler (CAT inlet)
30	165886	1	• • GASKET, Muffler (CAT outlet)
31	212015	1	• • PLUG, Oil filler
32	194699	1	• • REGULATOR (EPR)
			<b>Parts list continued on the next page.</b>



# 6.9 Engine - Kubota WG3800



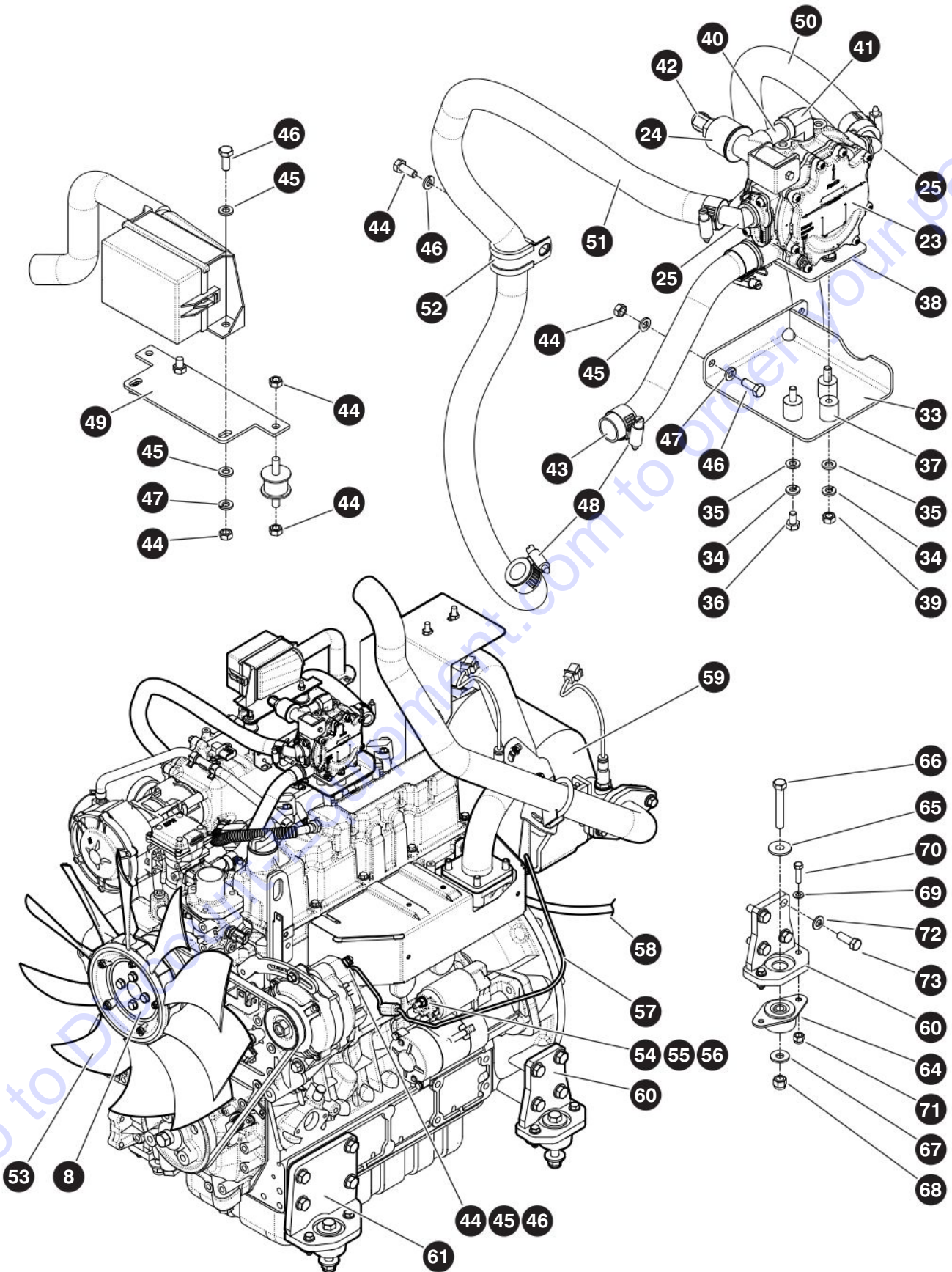
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## 6.9 Engine - Kubota WG3800

Index No.	Skyjack Part No.	Qty.	Description
<b>Parts list continued from the previous page.</b>			
-	198182	1	• KUBOTA WG3800 ENGINE ACCESSORIES
-	212496	1	• • VAPORIZER ASSEMBLY
33	212476	1	• • • BRACKET, Vaporizer
34	121758	4	• • • WASHER, Lock (M6)
35	933834	4	• • • WASHER, Flat (M6)
36	600723	3	• • • BOLT, Hex head cap screw (M6-1.0 x 10 gr 8.8)
37	165927	3	• • • MOUNT, Vibration damping (M6)
38	170399	1	• • • PLATE, Vaporizer
39	800354	1	• • • NUT, Hex (M6)
40	143478	1	• • • FITTING, Nipple (04NPTM - 2 LG brass)
41	103164	1	• • • FITTING, 90° (04 NPTF - 04 NPTM brass)
42	103159	1	• • • FITTING, 45° (06JICM-04NPTM brass)
43	165930	11"	• • HOSE, Vapor (0.375")
44	800354	7	• • NUT, Hex (M6)
45	933834	5	• • WASHER, Flat (M6)
46	104608	5	• • BOLT, Hex head patch (M6-1.00 x16.00 mm gr 5)
47	121758	8	• • WASHER, Lock (M6)
48	103320	6	• • CLAMP, Gear (SAE #16)
49	198424	1	• • PLATE, Fuse box
50	925229	25"	• • HOSE, Bulk (0.625")
51	925229	30"	• • HOSE, Bulk (0.625")
52	168707	1	• • CLAMP, Loop - cushioned (#16)
53	198400	1	• • FAN, Multiwing
54	116218	1	• • WASHER, Lock (M8)
55	121059	1	• • NUT, Hex head (M8-1.25 gr 5)
56	933832	1	• • WASHER, Flat (M8)
57	198347	1	• • HARNESS, Alternator
	165031	1	• • • FUSE, Bolt-down - 100A
58	198346	1	• • HARNESS, Power relay
59	(Ref.)	1	• EXHAUST ASSEMBLY (For components, refer to 6.12 Exhaust - Kubota WG3800)
-	197690	1	• ENGINE MOUNTS ASSEMBLY
60	198144	1	• • MOUNT, Rear left
61	198152	1	• • MOUNT, Front left
62	198153	1	• • MOUNT, Front right (not shown)
63	198095	1	• • MOUNT, Rear right (not shown)
64	163028	4	• • MOUNT, Vibration
<b>Parts list continued on the next page.</b>			

# 6.9 Engine - Kubota WG3800



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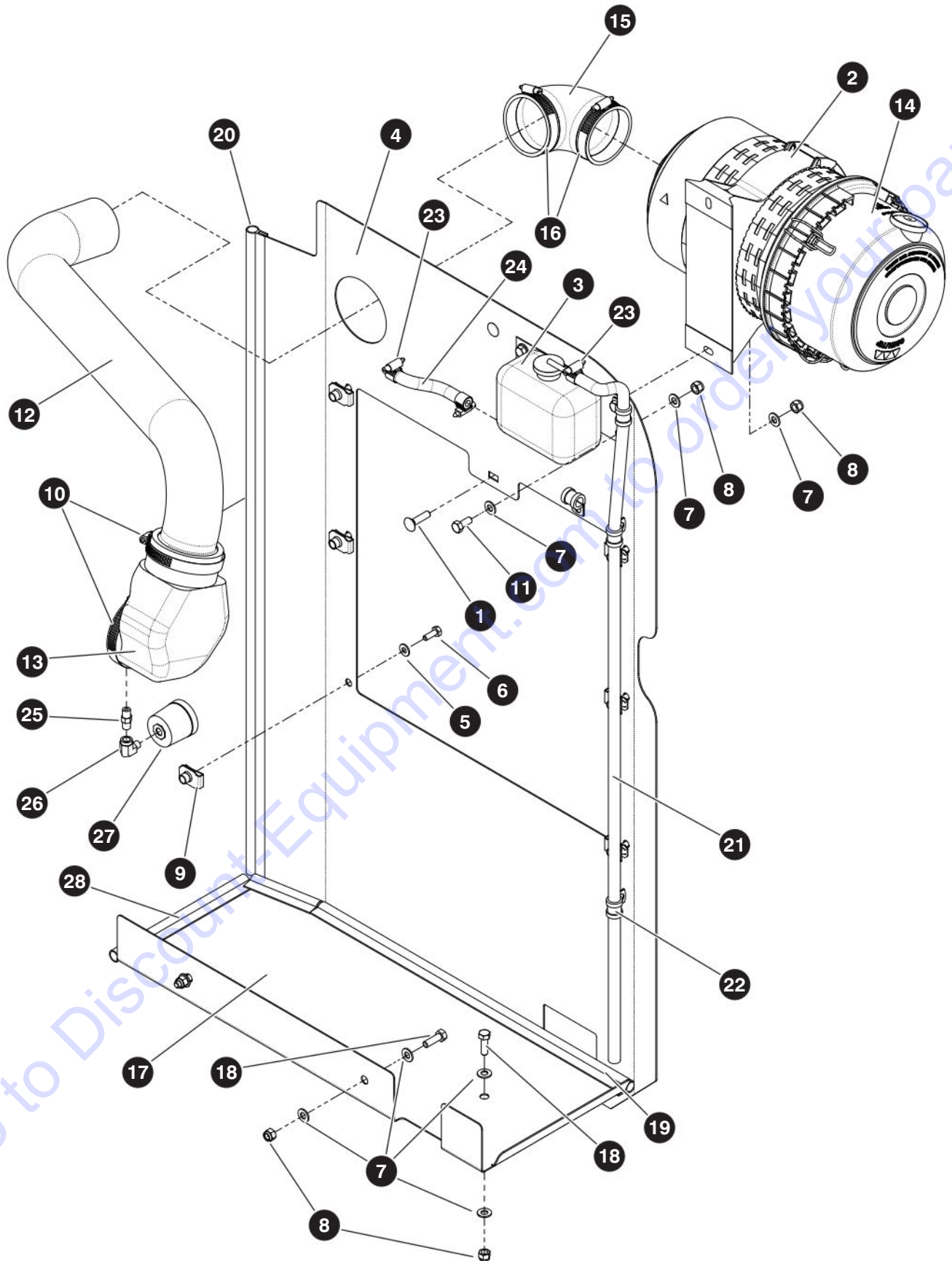
SJ85 AJ



## 6.9 Engine - Kubota WG3800

Index No.	Skyjack Part No.	Qty.	Description
<i>Parts list continued from the previous page.</i>			
65	163200	4	• • WASHER, Snubbing
66	103469	4	• • BOLT, Hex head (0.50"-13 x 3.25" gr 5)
67	104379	4	• • WASHER, Flat (0.50")
68	702507	4	• • NUT, Lock (0.50-13 gr C)
69	103996	8	• • WASHER, Flat (0.31")
70	157771	8	• • BOLT, Hex head cap screw (0.3125"-18 x 1.25" gr 5)
71	103984	8	• • NUT, Lock (0.31"-18 gr B)
72	933817	16	• • WASHER, Flat (M12)
73	166767	16	• • BOLT, Hex head (M12 x 1.25 x 35 mm gr 8.8)

## 6.10 Air Intake - Kubota WG3800



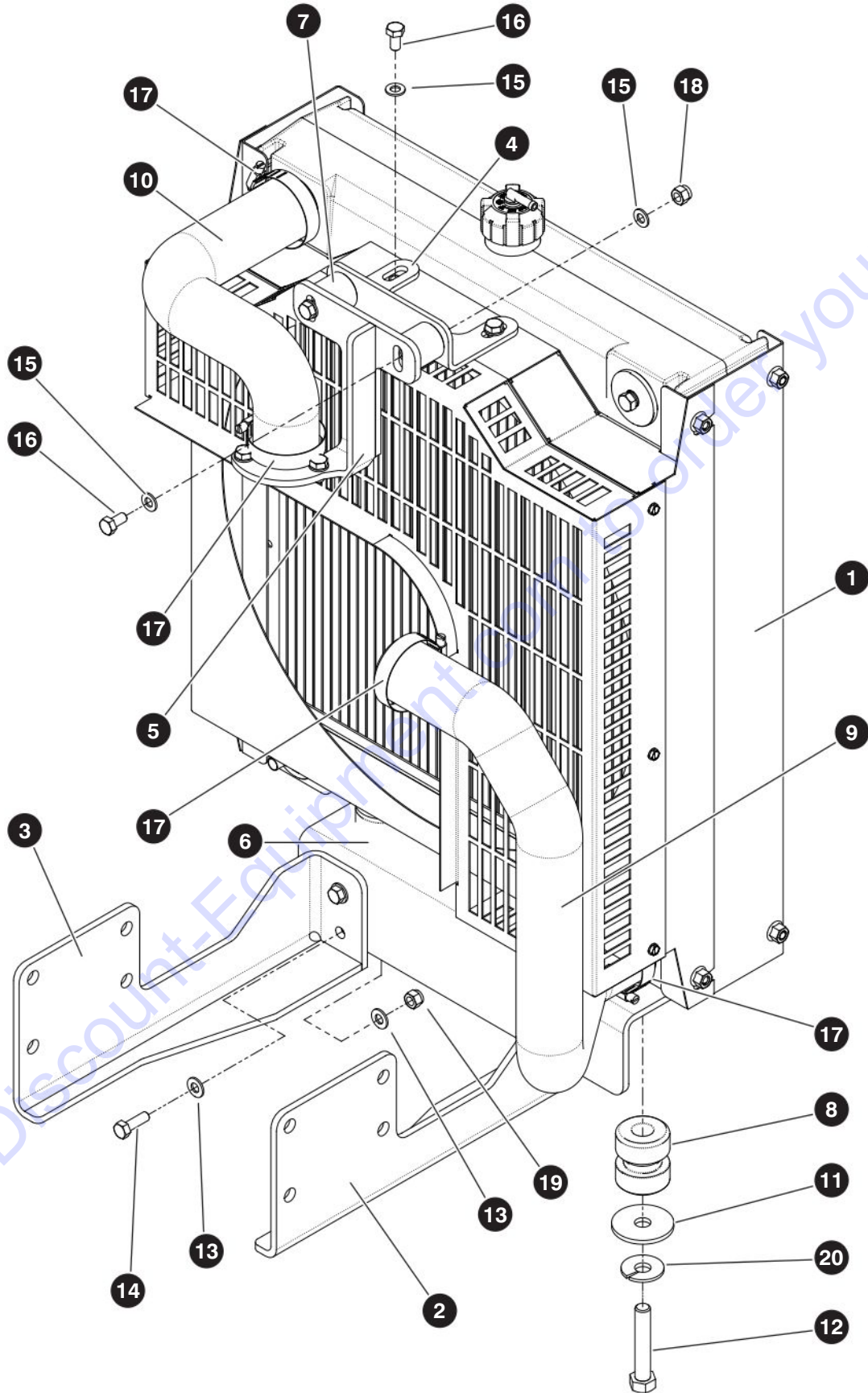
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## 6.10 Air Intake - Kubota WG3800

Index No.	Skyjack Part No.	Qty.	Description
-	197798	1	AIR INTAKE, Kubota WG3800
1	106049	2	• BOLT, Carriage (0.3125"-18 x 1.25" gr 5)
2	163245	1	• BRACKET, Air cleaner
3	147142	1	• RESERVOIR, Coolant
4	198409	1	• PLATE, Shroud
5	103995	6	• WASHER, Flat (0.25")
6	103856	6	• BOLT, Hex head (0.25"-20 x 0.75" gr 5)
7	103996	16	• WASHER, Flat (0.31")
8	103984	9	• NUT, Lock (0.31"-18 gr B nylon)
9	149496	6	• NUT, Speed clip (0.25"-20)
10	198177	2	• CLAMP, Hose (2.8"-3.75")
11	103887	4	• BOLT, Hex head (0.312"-18 x 0.75" gr 5)
12	198408	1	• PIPE, Air intake
13	932937	1	• ELBOW
14	163243	1	• AIR CLEANER - E300
	165949	1	• • ELEMENT, Primary
	165950	1	• • ELEMENT, Secondary
	194405	1	• • CAP, Air cleaner
15	163248	1	• CONNECTOR, 90°
16	163193	2	• CLAMP, Gear (2.063" - 3.00")
17	198410	1	• BAFFLE, Extension
18	103864	3	• BOLT, Hex head (0.31"-18 x 1.00" gr 5)
19	137625	26"	• TRIM, Rubber
20	137625	36"	• TRIM, Rubber
21	102984	35"	• HOSE (0.3125")
22	149495	2	• CLAMP, Tube - cushioned
23	163521	3	• CLAMP, Gear (0.625")
24	102984	12"	• HOSE (0.3125")
25	406292	1	• FITTING, Adapter - hex pipe nipple 451
26	139094	1	• FITTING, 90° (1/8NPTM-1/8NPTF)
27	163250	1	• INDICATOR, Service
28	137625	9"	• TRIM, Rubber

# 6.11 Radiator - Kubota WG3800

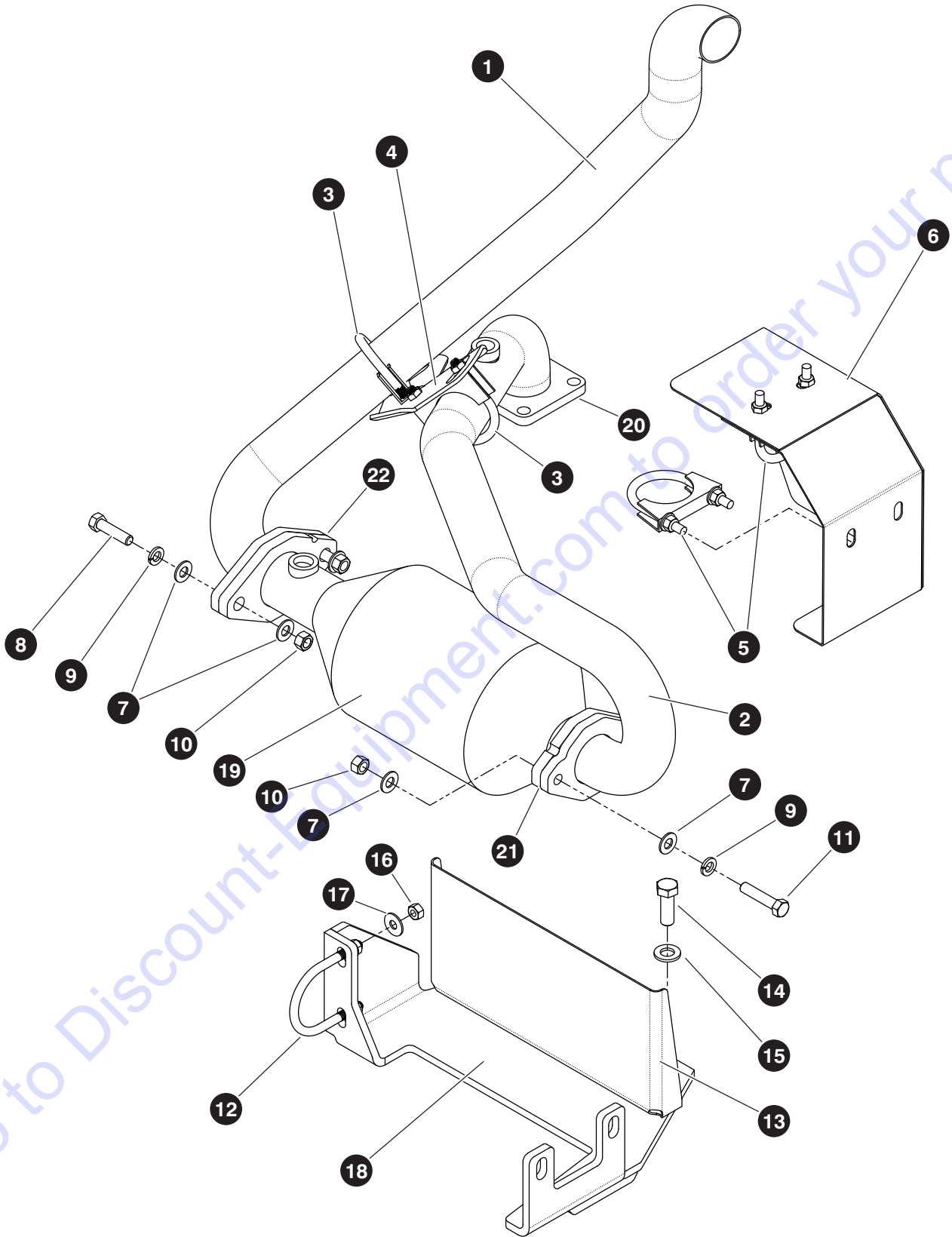


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## 6.11 Radiator - Kubota WG3800

Index No.	Skyjack Part No.	Qty.	Description
-	198397	1	ENGINE COOLING PACKAGE, Kubota WG3800
1	198398	1	• RADIATOR
-	198399	1	• MOUNTING KIT, Radiator
2	211873	1	• • LEG, Right front
3	211874	1	• • LEG, Left front
4	198188	1	• • SUPPORT, Upper
5	211875	1	• • SUPPORT, Upper
6	211876	1	• • BRACKET, Cross
7	190430	2	• • ISOLATOR (32 x 32, M8-1.25)
8	190428	2	• • ISOLATOR (46.4 mm x 51.21 mm, 0.50"-13)
9	211877	1	• • HOSE, Lower
10	211878	1	• • HOSE, Upper
11	137241	2	• WASHER, Flat (0.50" style AA)
12	108818	2	• BOLT, Hex head (0.50"-13 x 2.75" gr 5)
13	103996	12	• WASHER, Flat (0.31")
14	103864	4	• BOLT, Hex head (0.31"-18 x 1.00" gr 5)
15	933832	6	• WASHER, Flat (M8-OD 16.0)
16	933660	4	• BOLT, Hex head cap screw (M8-1.25 x 16 gr 8.8)
17	163193	4	• CLAMP, Gear (2.063" - 3.00")
18	933696	2	• NUT, Lock (M8-1.25 nylon)
19	103984	4	• NUT, Lock (0.31"-18 gr B)
20	103470	2	• WASHER, Lock (0.50" x 0.12")

# 6.12 Exhaust - Kubota WG3800

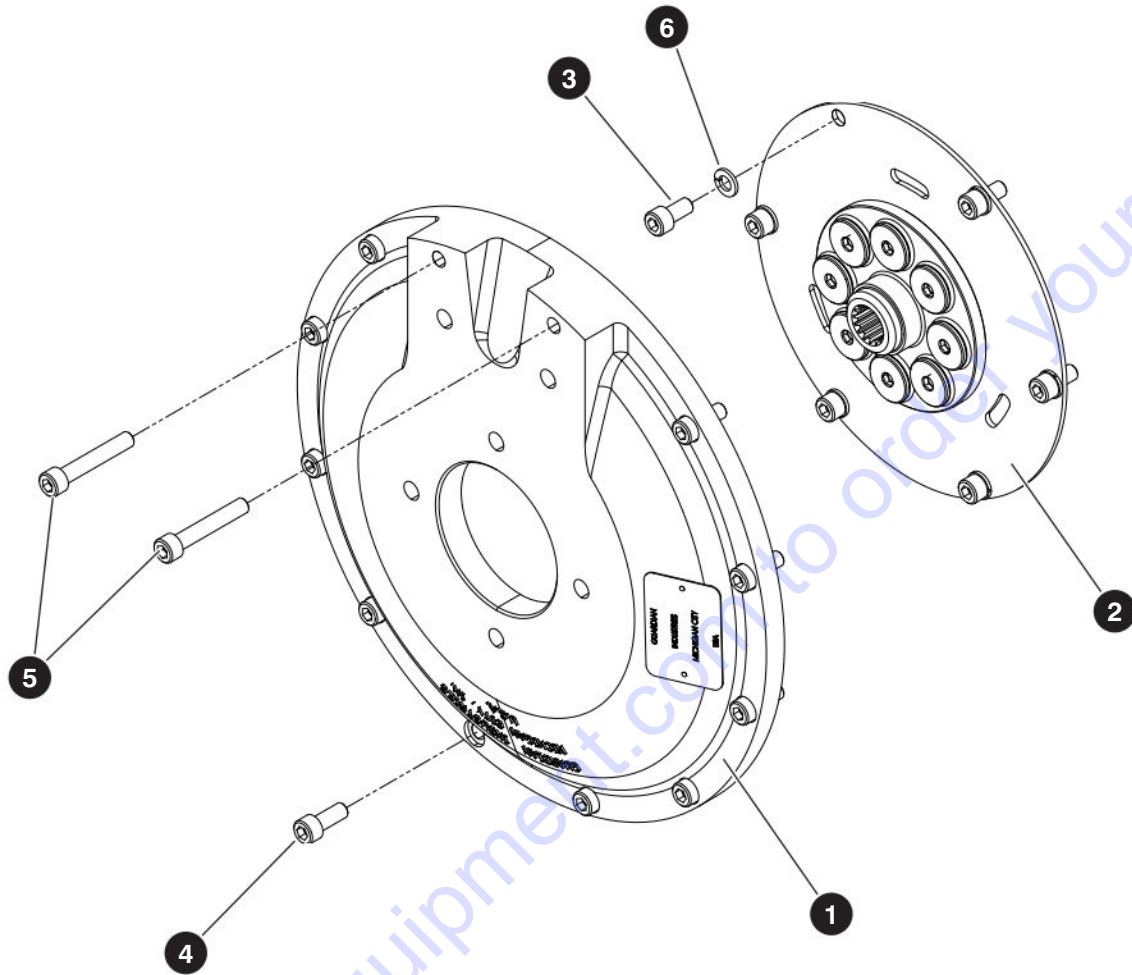




## 6.12 Exhaust - Kubota WG3800

Index No.	Skyjack Part No.	Qty.	Description
-	198178	1	EXHAUST ASSEMBLY, Kubota WG3800
1	198169	1	• TAILPIPE
2	198166	1	• PIPE, Exhaust
3	136030	2	• CLAMP, Exhaust pipe (1.875" dia)
4	171222	1	• BRACKET, Tail Pipe
5	148377	2	• CLAMP, Exhaust pipe (2.00" dia)
6	198179	1	• SHIELD, Heat
7	103472	8	• WASHER, Flat (0.38" SAE)
8	103870	2	• BOLT, Hex head (0.38"-16 x 1.50" gr 5)
9	103999	4	• WASHER, Lock (0.38")
10	103978	4	• NUT, Hex head (0.38-16 gr 5)
11	103871	2	• BOLT, Hex head (0.375"-16 x 1.75" gr 5)
12	198181	1	• U-BOLT
13	198423	1	• HEATSHIELD, Harness
14	166767	4	• BOLT, Hex head (M12 x 1.25 X 35 mm gr 8.8)
15	933817	4	• WASHER, Flat (M12)
16	100397	2	• NUT, Hex head (0.313"-18 gr 5)
17	166164	2	• WASHER, Flat (0.313")
18	198446	1	• BRACKET, CAT converter
19	197797	1	CONVERTER, Catalytic
20	212021	1	GASKET, Muffler
21	164885	1	GASKET, Muffler (CAT inlet)
22	165886	1	GASKET, Muffler (CAT outlet)

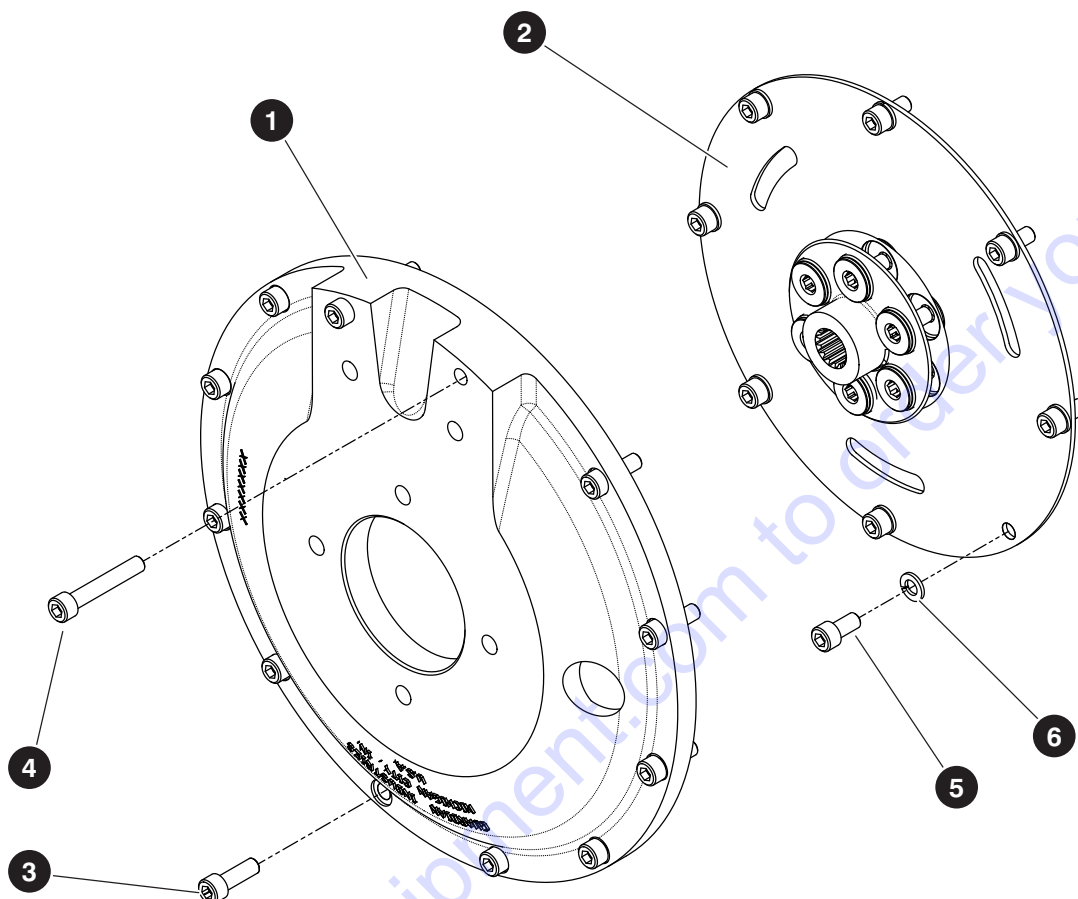
## 6.13 Engine Coupling - Deutz



M168043AA

Index No.	Skyjack Part No.	Qty.	Description
-	168043	1	ENGINE COUPLING ASSEMBLY - <b>Deutz</b>
1	152332	1	• HOUSING
2	168034	1	• COUPLING, Flywheel
3	168042	6	• BOLT, Socket head cap screw (M10 x 1.50 x 20mm, Grade 8.8)
4	168053	10	• BOLT, Socket head cap screw (M10 x 1.50 x 25mm, Grade 8.8)
5	152335	2	• BOLT, Socket head cap screw (M10 x 1.50 x 60mm, Grade 8.8)
6	132497	6	• WASHER, Lock (M10)

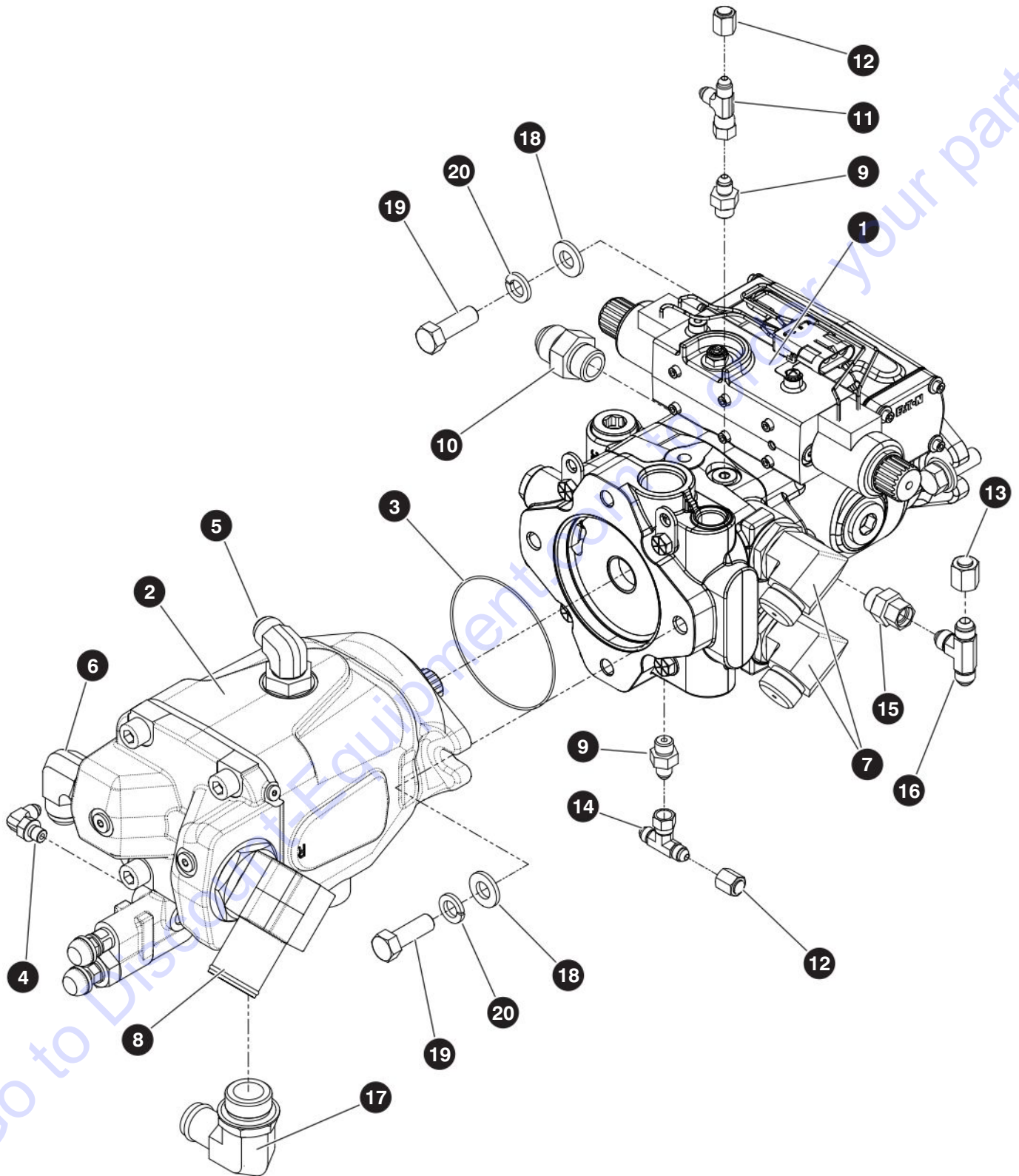
## 6.14 Engine Coupling - Kubota



M198176AB

Index No.	Skyjack Part No.	Qty.	Description
-	198176	1	ENGINE COUPLING ASSEMBLY - <b>Kubota</b>
-	197697	1	• BELL HOUSING
1	211815	1	• • HOUSING
2	211816	1	• • COUPLING, Flywheel
3	198180	10	• BOLT, Socket head cap screw (M10 x 1.25 x 30 mm, gr 12.9)
4	198422	2	• BOLT, Socket head cap screw (M10 x 1.25 x 60 mm, gr 12.9)
5	198421	8	• BOLT, Socket head cap screw (M10 x 1.25 x 20 mm, gr 12.9)
6	132497	8	• WASHER, Lock (M10)

## 6.15 Drive & System Pumps



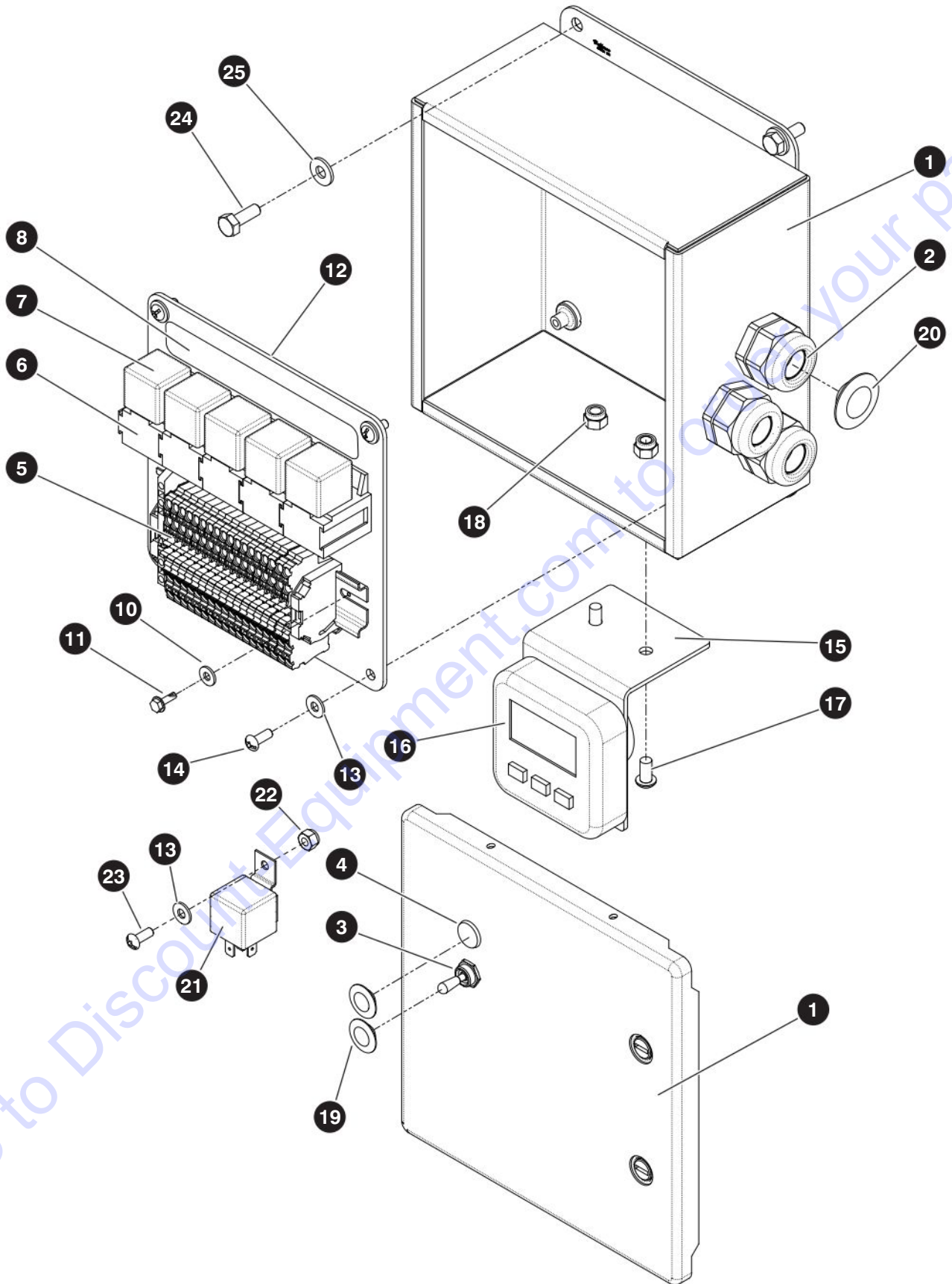
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## 6.15 Drive & System Pumps

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	198442	1	DRIVE & SYSTEM PUMPS - <b>Deutz</b>
<b>B</b>	165491	1	DRIVE & SYSTEM PUMPS - <b>Kubota</b>
1	169006	1	• PUMP, Hydrostatic - 40.6 cc
	170926	1	• • SHIM
	170952	1	• • O-RING
	170953	1	• • SPRING
	170954	1	• • PLUG
	170955	1	• • POPPET
	209333	1	• • CONTROL UNIT, Servo
2	165101	1	• PUMP, Main Function - 49.22 cc
3	159878	1	• O-RING (2-045)
4	125883	1	• FITTING, 90° (04JICM-04ORBM)
5	138981	1	• FITTING, 90° (10JICM-12ORBM)
6	710124	1	• FITTING, 90° (12JICM-16ORBM), <b>A</b>
	707040	1	• FITTING, 90° (16JICM-16ORBM), <b>B</b>
7	167067	2	• FITTING, 90° (12FSM-16ORBM)
8	165484	1	• FITTING, 90° (24BEAD-24ORBM)
9	701956	2	• FITTING, Straight (04JICM-06ORBM)
10	702118	1	• FITTING, Straight (12JICM-12ORBM)
11	707917	1	• FITTING, Tee (04JICM-04JICM-04JICFS)
12	131286	2	• FITTING, Cap (04JICF)
13	107666	1	• FITTING, Cap (06JICF)
14	160792	1	• FITTING, Branch tee (04JICFS-04JICM-04JICM)
15	162043	1	• FITTING, Straight (06JICFS-08ORBM)
16	131704	1	• FITTING, Tee (06JICM-06JICM-06JICM)
17	138983	1	• FITTING, 90° (16BEAD-16ORBM)
18	104379	4	• WASHER, Flat (0.50" Hard)
19	103907	4	• BOLT, Hex head (0.50"-13 x 1.50" gr 5)
20	103470	4	• WASHER, Lock (0.50" gr 5)

## 6.16 Engine Controls



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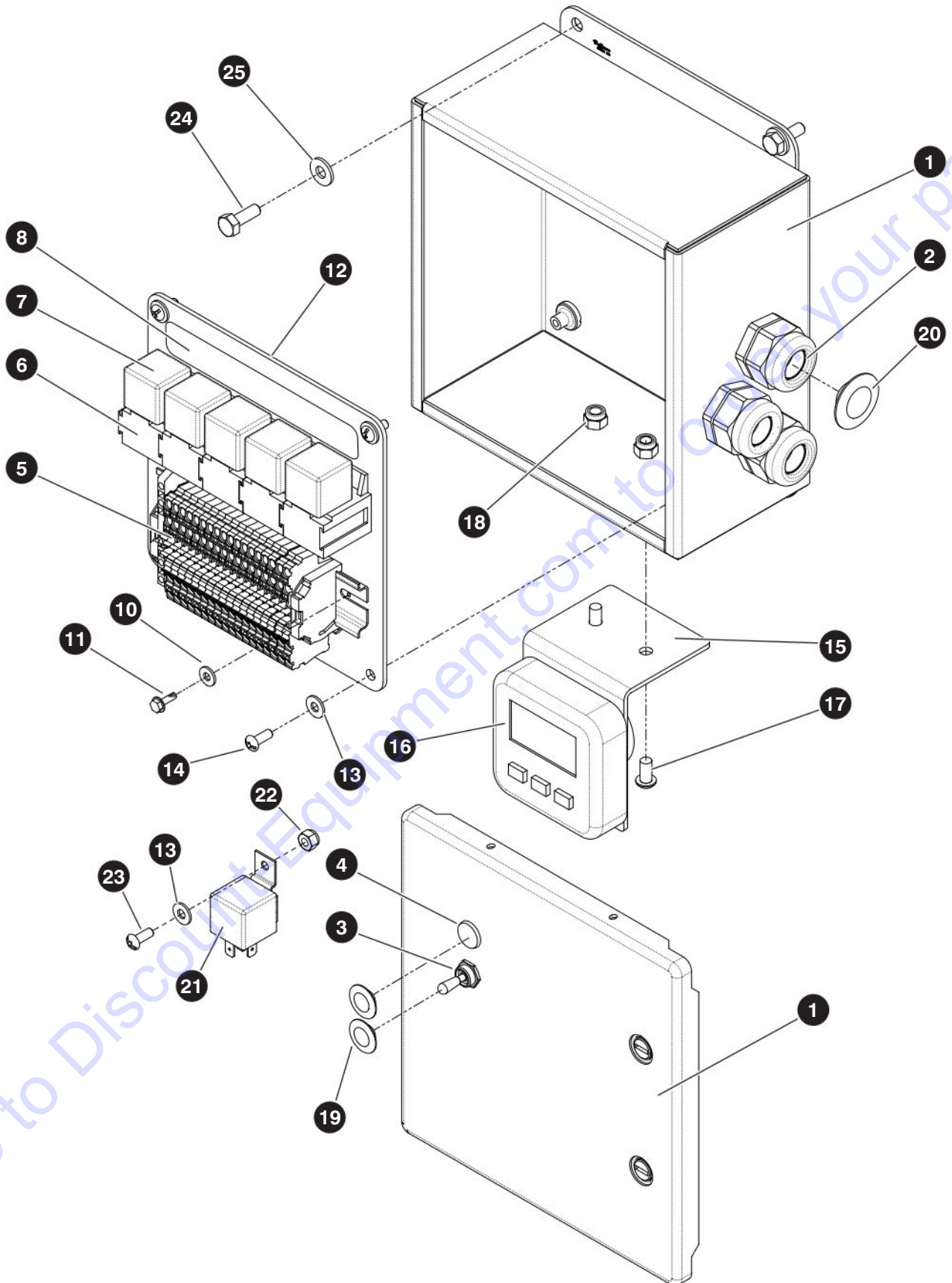
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## 6.16 Engine Controls

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	198136	1	ENGINE CONTROLS, <b>Deutz TD2.9L</b>
<b>B</b>	224595	1	ENGINE CONTROLS, <b>Deutz TCD2.2</b>
<b>C</b>	198395	1	ENGINE CONTROLS, <b>Deutz D2011</b>
<b>D</b>	198213	1	ENGINE CONTROLS, <b>Kubota WG3800</b>
1	197688	1	• ENCLOSURE, <b>A, C, D</b>
	224596	1	• ENCLOSURE, <b>B</b>
2	116266	3	• STRAIN RELIEF, PG21, <b>A</b>
	116266	4	• STRAIN RELIEF, PG21, <b>B</b>
	116266	2	• STRAIN RELIEF, PG21, <b>C, D</b>
3	102853	1	• SWITCH, Toggle (1NT1-7), <b>A, C</b>
4	171502	1	• LIGHT, Indicator - 14 V amber, <b>A, C</b>
5	198099	1	• TERMINAL STRIP, Engine controls (For components, refer to 6.17 Terminal Strip - Engine Controls)
6	137849	5	• SOCKET, Relay, <b>A, B, C</b>
	137849	1	• SOCKET, Relay, <b>D</b>
7	127131	5	• RELAY, 12V 40 amp, <b>A, B, C</b>
	127131	1	• RELAY, 12V 40 amp, <b>D</b>
8	198137	1	• LABEL, Relay - engine control, <b>A, B</b>
	198393	1	• LABEL, Relay - engine control, <b>C</b>
	198218	1	• LABEL, Relay - engine control, <b>D</b>
9	198135	1	• WIRING, Engine control (not shown), <b>A</b>
	224597	1	• WIRING, Engine control (not shown), <b>B</b>
	198392	1	• WIRING, Engine control (not shown), <b>C</b>
	198212	1	• WIRING, Engine control (not shown), <b>D</b>
	163021	1	• RESISTOR, 120 ohm 1/2 watt axial lead, <b>A</b>
	164858	1	• RESISTOR, 2.1 K 1/2 watt axial lead, <b>A</b>
	164859	1	• RESISTOR, 2.2 K 1/2 watt axial lead, <b>A</b>
	164857	1	• RESISTOR, 3.9 K 1/2 watt axial lead, <b>A</b>
	143952	1	• RESISTOR, 51 ohm 2 watt axial lead, <b>B</b>
10	103991	4	• WASHER, Flat (#8)
11	112327	4	• BOLT, Self-tapping (#8-18 x 0.50")
12	198436	1	• BACKPLATE
13	104694	4	• WASHER, Flat (#10), <b>A, D</b>
	104694	5	• WASHER, Flat (#10), <b>C</b>
14	103962	4	• SCREW, Round head machine (10-32 x 0.50")
15	228204	1	• BRACKET, Engine display, <b>B</b>
	198215	1	• BRACKET, Engine display, <b>D</b>
16	191471	1	• DISPLAY, Engine parameter, <b>B</b>
	166739	1	• DISPLAY, Engine parameter, <b>D</b>
17	300060	2	• BOLT, Button head cap screw (0.25"-20 x 0.50"), <b>D</b>

## 6.16 Engine Controls



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## 6.16 Engine Controls

Index No.	Skyjack Part No.	Qty.	Description
18	115649	2	• NUT, Lock (0.25"-20 x gr 5 nylon)
19	139127	2	• PLUG, Hole (0.50"), <b>B, D</b>
20	131938	1	• PLUG, Hole (1.125"), <b>C, D</b>
21	127035	1	• RELAY, 12 V 40 amp, <b>C, B</b>
22	126642	1	• NUT, Lock (10-24 gr 5), <b>B, C</b>
23	103960	1	• SCREW, Round head machine (10-24 x 0.50"), <b>B, C</b>
24	103586	4	BOLT, Hex head (0.25"-20 x 0.75" gr 5)
25	103995	4	WASHER, Flat (0.25")

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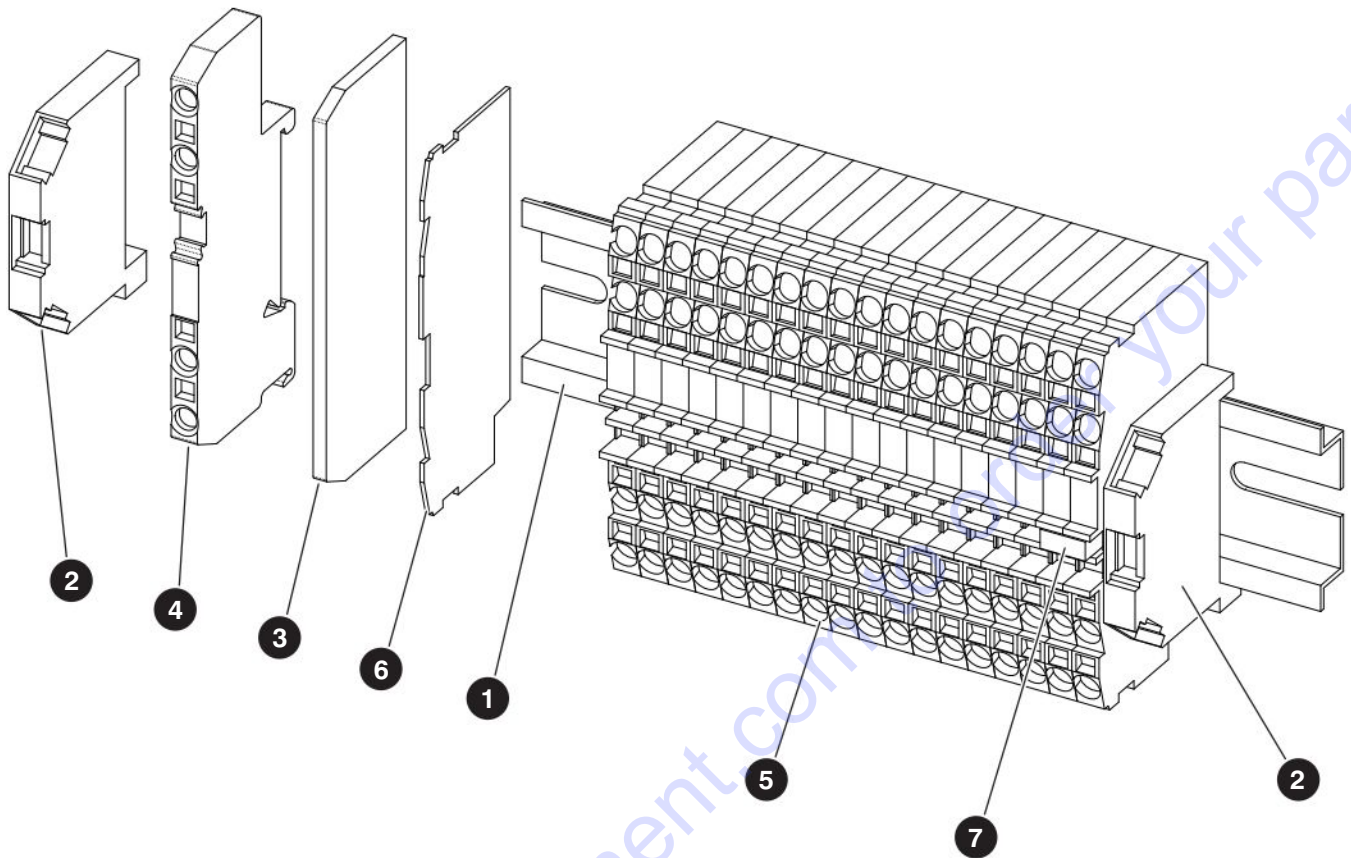
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## 6.17 Terminal Strip - Engine Controls



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Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	198099	1	TERMINAL STRIP, Engine controls - <b>Deutz TD2.9L &amp; TCD2.2</b>
<b>B</b>	198100	1	TERMINAL STRIP, Engine controls - <b>Deutz D2011</b>
<b>C</b>	198101	1	TERMINAL STRIP, Engine controls - <b>Kubota WG3800</b>
1	102874	6"	• RAIL, DIN
2	707147	2	• STOP, End
3	707146	1	• PLATE, End/intermediate
4	707145	1	• TERMINAL BLOCK (4 cond through with diode), <b>A</b>
5	137940	18	• TERMINAL BLOCK (4 cond through), <b>A</b>
	137940	20	• TERMINAL BLOCK (4 cond through), <b>B</b>
	137940	8	• TERMINAL BLOCK (4 cond through), <b>C</b>
6	137941	1	• PLATE, End
7	137942	1	• JUMPER, 2-pin, <b>A, B</b>

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## Section 7 – Electrical Harnesses

**7.1** *Main Harness*

**7.2** *Jib and Platform Rotate Harness*

**7.3** *Control Cables*

**7.4** *Engine Harness - Deutz TD2.9L*

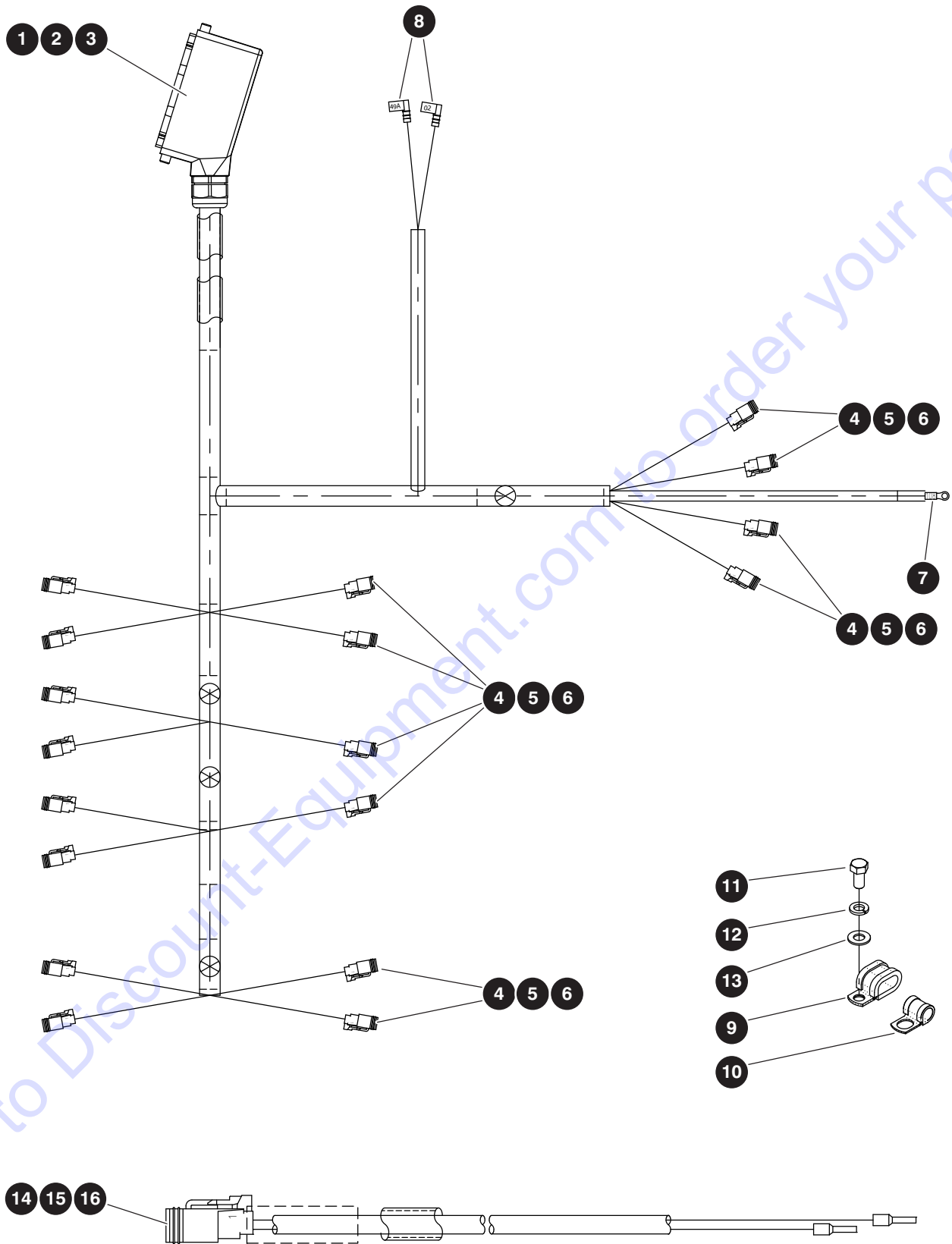
**7.5** *Engine Harness - Deutz TCD2.2*

**7.6** *Engine - Kubota WG3800*

**7.7** *Glow Plug Harness - Deutz TCD2.2*



# 7.1 Main Harness



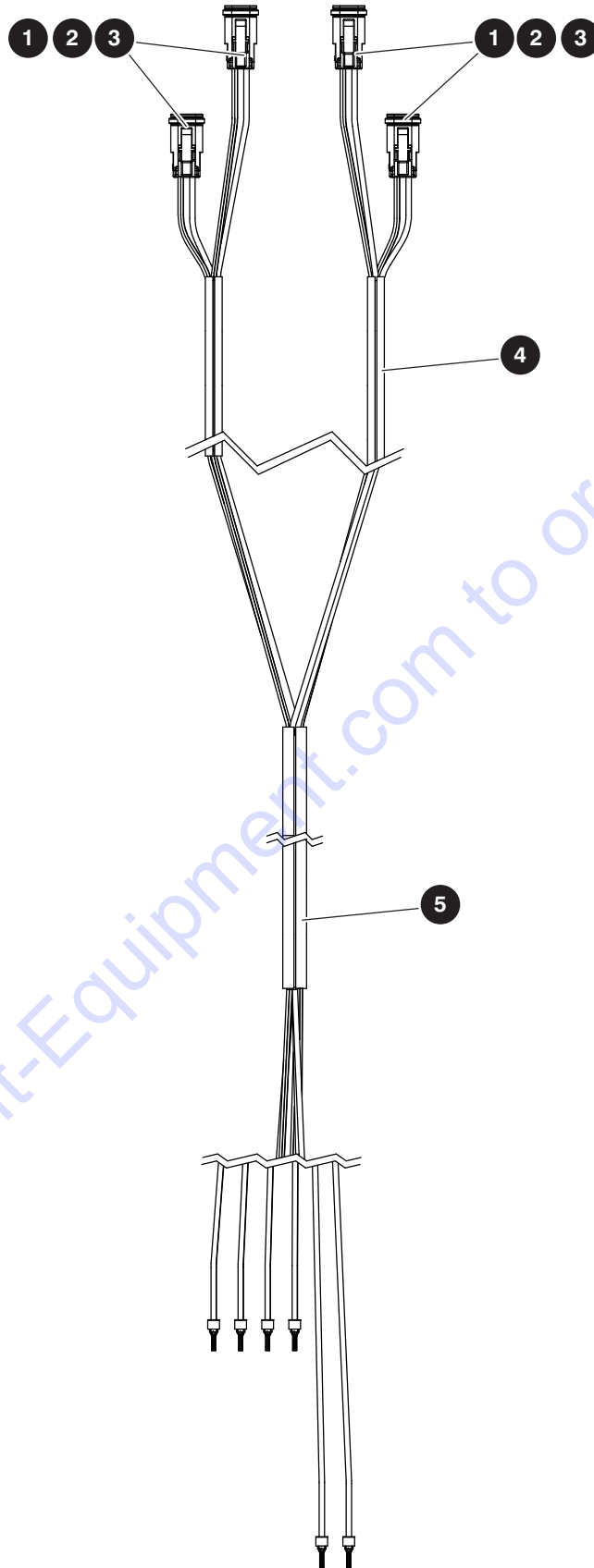
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## 7.1 Main Harness

Index No.	Skyjack Part No.	Qty.	Description
-	198221	1	MAIN WIRING HARNESS
-	198133	1	• MAIN MANIFOLD HARNESS
1	138753	1	• • HOOD, Side - 24 pole
2	138754	1	• • RELIEF, Strain (M32 x 1.5)
3	138755	1	• • PLUG, Spring - 24 pole
4	117597	19	• • PLUG, Deutsch
5	117591	38	• • SOCKET, Deutsch
6	117599	19	• • WEDGE, Deutsch
7	102936	1	• • TERMINAL, Ring (#10)
8	300772	1	• • TERMINAL, Female (14-16 ga 90°)
9	102972	1	• CLAMP, Double loop - cushion (G08)
10	144129	1	• CLAMP, Loop - cushion (#10, 0.53" mount)
11	101632	2	• BOLT, Hex head (0.375"-16 x 0.75" gr 5)
12	103999	2	• WASHER, Lock (0.375")
13	103472	2	• WASHER, Flat (0.375")
-	198134	1	• FUEL HARNESS
14	117597	1	• • PLUG, Connector - 2-pin
15	117599	1	• • WEDGE, Connector plug - 2-pin
16	117590	2	• • SOCKET, Connector contact (16/18 ga)

## 7.2 Jib and Platform Rotate Harness



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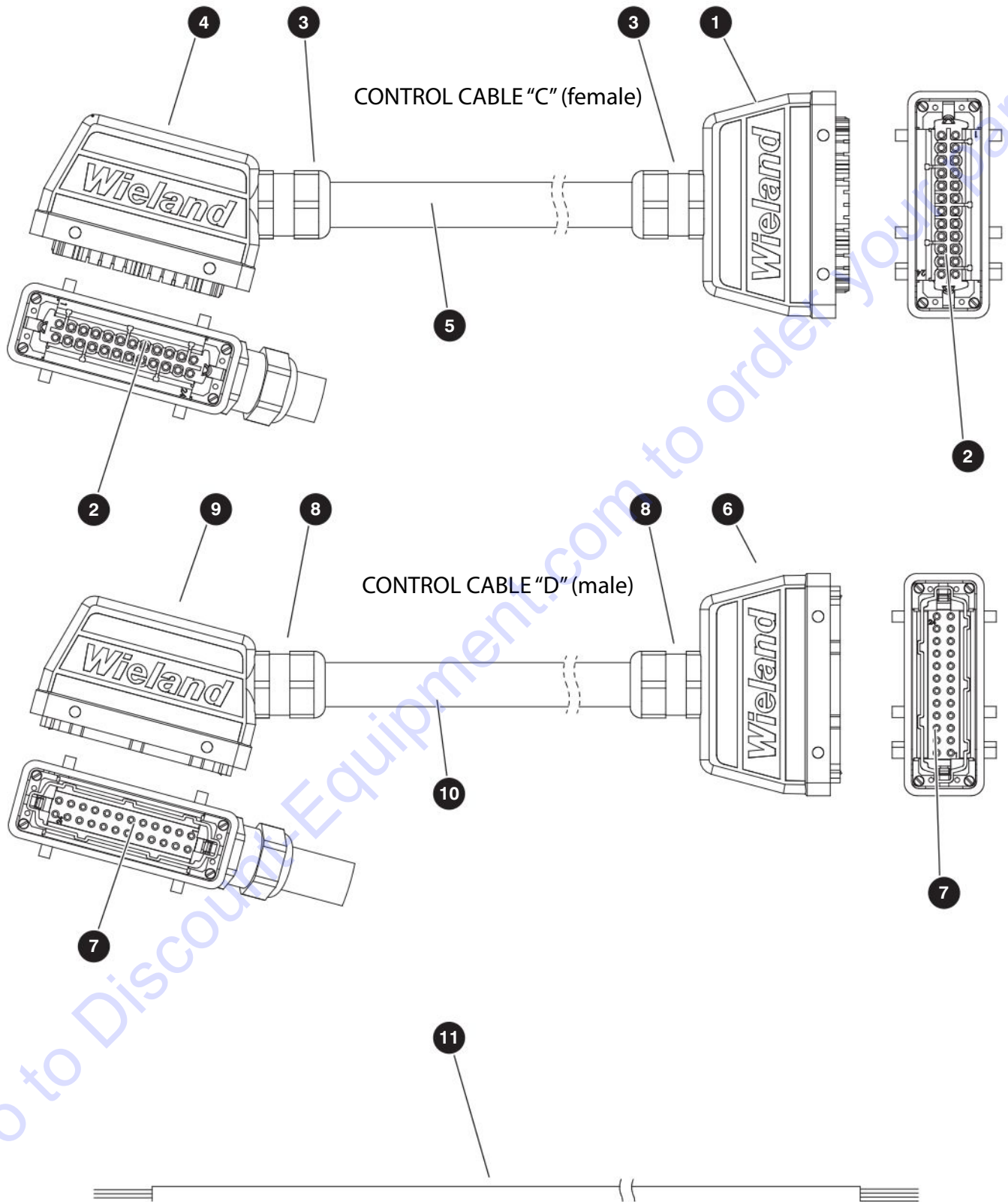
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**SKYJACK**

## 7.2 Jib and Platform Rotate Harness

Index No.	Skyjack Part No.	Qty.	Description
-	168650	1	HARNES, Jib & platform rotate
1	117597	4	• CONNECTOR, Plug 2-pin
2	117599	4	• WEDGE, Connector plug 2-pin
3	117591	8	• SOCKET, Contact - connector plug 2-pin
4	111354	138"	• PROTECTOR, Wire (0.375")
5	124399	38"	• PROTECTOR, Wire (0.25")

## 7.3 Control Cables



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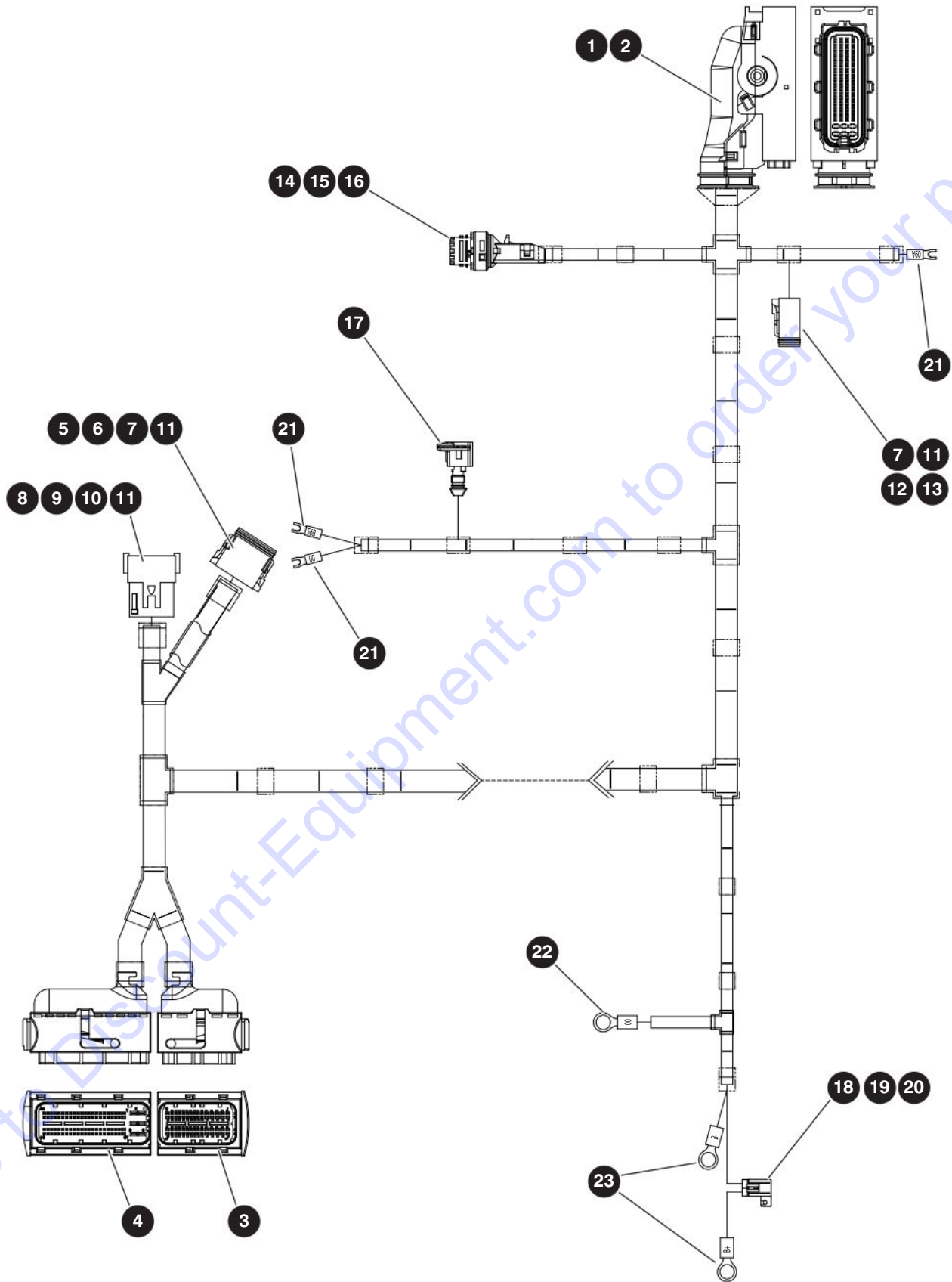
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## 7.3 Control Cables

Index No.	Skyjack Part No.	Qty.	Description
-	198457	1	CONTROL CABLES
-	198438	1	• CONTROL CABLE "C" (female)
1	138752	1	• • HOOD, Top 24 pole (M32)
2	138755	2	• • PLUG, 24 Pole spring (16A)
3	233265	2	• • RELIEF, Strain (M32 x 1.5)
4	138753	1	• • HOOD, Side 24 (M32)
5	198440	1	• • CABLE, Cut (16/24C)
-	198439	1	• CONTROL CABLE "D" (male)
6	138752	1	• • HOOD, Top 24 pole (M32)
7	138756	2	• • SOCKET, 24 Pole spring (16A)
8	233265	2	• • RELIEF, Strain (M32 x 1.5)
9	138753	1	• • HOOD, Side 24 (M32)
10	198441	1	• • CABLE, Cut (18/24C)
11	198458	1	• CONTROL CABLE
12	131732	24"	• SLEEVE, Protective (not shown)



## 7.4 Engine Harness - Deutz TD2.9L



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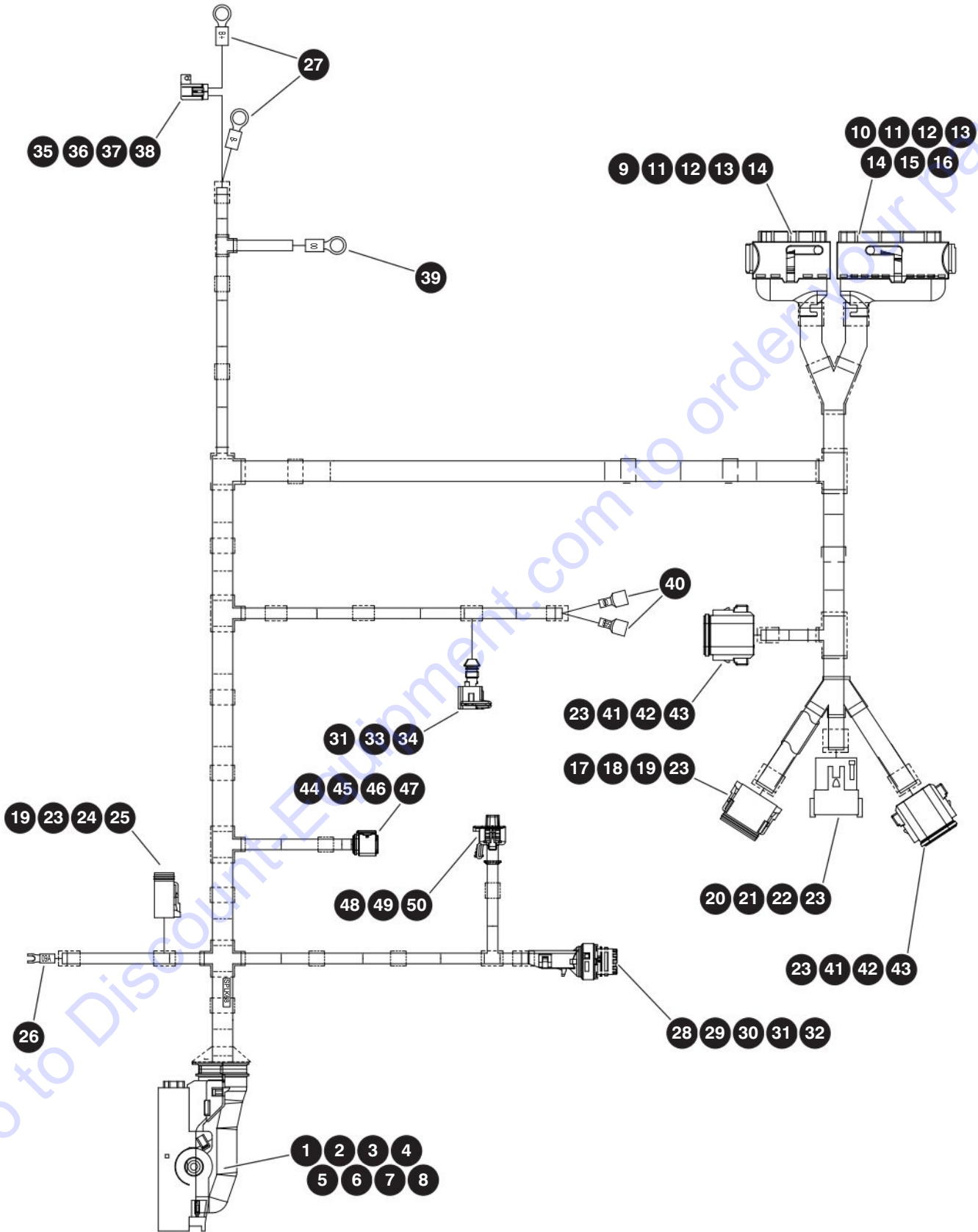
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## 7.4 Engine Harness - Deutz TD2.9L

Index No.	Skyjack Part No.	Qty.	Description
-	198132	1	ENGINE HARNESS - <i>Deutz TD2.9L</i>
1	164544	1	• CONNECTOR, 6F amp MCP
2	164545	1	• COVER, Connector - 62 pin
3	164556	1	• CONNECTOR, 60F amp MQS
4	164567	1	• CONNECTOR, 94F amp MQS+MCP
5	117587	1	• CONNECTOR, Plug - 12 pin
6	117589	1	• CONNECTOR, Plug 12 pin wedge
7	117591	13	• CONNECTOR, Contact socket 16-18
8	117586	1	• CONNECTOR, Receptacle - 12-pin
9	117588	1	• CONNECTOR, Receptacle - 12-pin wedge
10	117590	10	• CONNECTOR, Contact pin (16-18)
11	117594	5	• CONNECTOR, Sealing plug
12	117579	1	• CONNECTOR, Plug 4 pin
13	117581	1	• CONNECTOR, Plug 4 pin wedge
14	164579	1	• CONNECTOR, 4F 2.5 mm circular
15	164580	1	• RELIEF, Strain - straight
16	156172	1	• PLUG, Cavity
17	156163	1	• CONNECTOR, 2F amp
18	156127	1	• CONNECTOR, 2F 630 M/P fuse holder
19	156164	1	• FUSE, ATO, 30 A
20	156117	1	• COVER, Inline autofuse
21	109892	3	• TERMINAL, Fork (14-16 ga)
22	156221	1	• TERMINAL, Ring (M10)
23	156219	2	• TERMINAL, Ring (M8)

# 7.5 Engine Harness - Deutz TCD2.2



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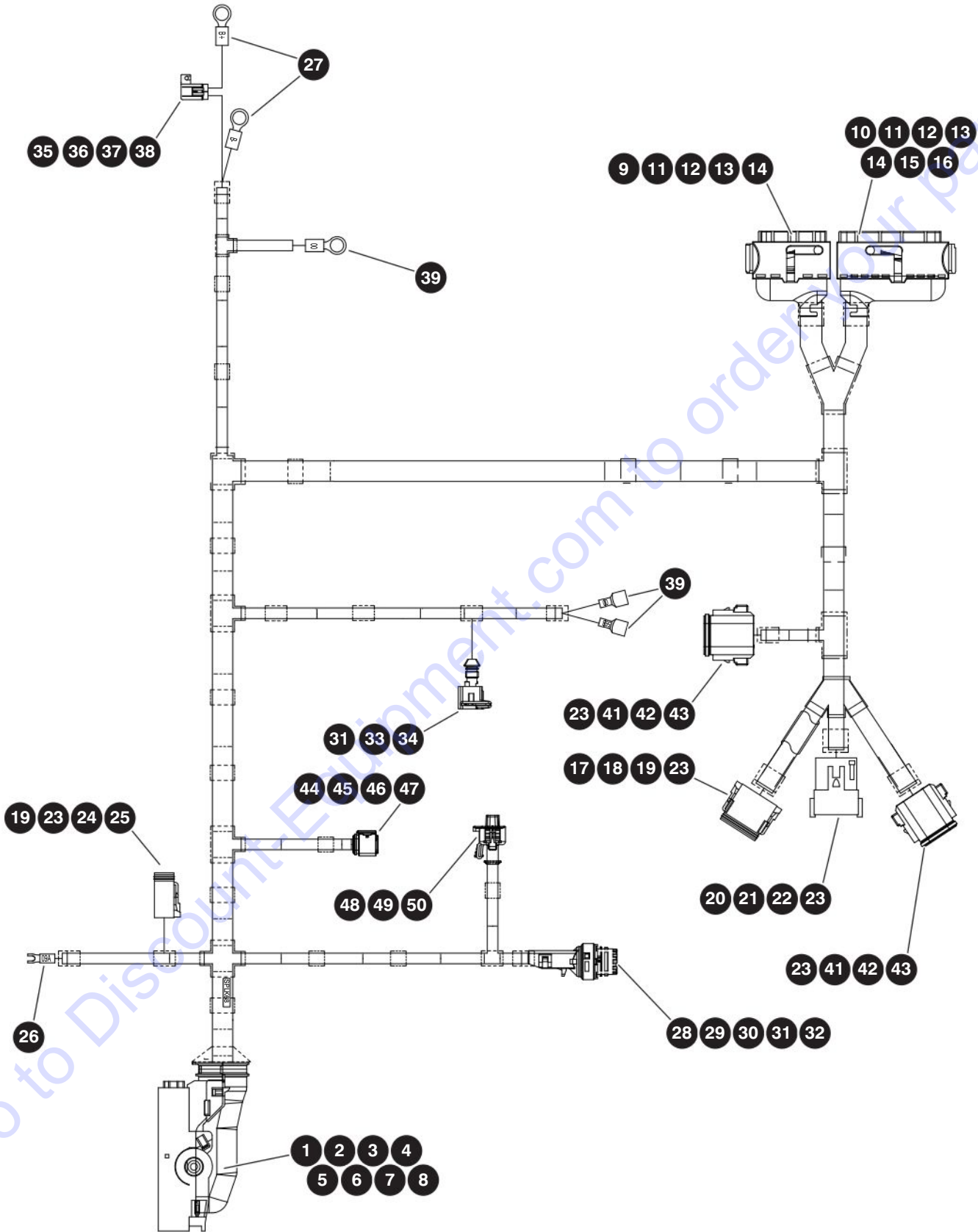
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## 7.5 Engine Harness - Deutz TCD2.2

Index No.	Skyjack Part No.	Qty.	Description
-	224592	1	ENGINE HARNESS - <i>Deutz TCD2.2</i>
1	164544	1	• ASSEMBLY, Connector (62F, AMP MCP)
2	164545	1	• COVER, 62-Pin Connector
3	164546	32	• TERMINAL, Female (1.0 - 0.5mm <sup>2</sup> , MCP)
4	164547	32	• SEAL, Wire (Grey, 1.4 - 1.9mm, MCP)
5	164548	24	• PLUG, Cavity (3.6mm, MCP)
6	164549	2	• TERMINAL, Female (2.5 - 1.0mm <sup>2</sup> , MCP)
7	164550	2	• SEAL, Wire (White, 2.2 - 3.0mm, MCP)
8	164551	4	• PLUG, Cavity (5.4mm, MCP)
9	164556	1	• ASSEMBLY, Connector (60F, AMP MQS)
10	164567	1	• ASSEMBLY, Connector (94F, AMP MQS+MCP)
11	164561	45	• TERMINAL, Female (0.75 - 0.5mm <sup>2</sup> , MQS)
12	164562	15	• TERMINAL, Female (1.5 - 0.75mm <sup>2</sup> , MQS)
13	164563	76	• PLUG, Cavity (MQS)
14	164564	12	• PLUG, Cavity (MQS)
15	164572	6	• TERMINAL, Female (2.5 - 1.0mm <sup>2</sup> , MCP2.8)
16	164573	6	• SEAL, Wire (Yellow, 2.7 - 3.0mm, JPT/MCP)
17	117587	1	• CONNECTOR, Plug (12-pin)
18	117589	1	• CONNECTOR, Plug (12-pin wedge)
19	117591	15	• CONNECTOR, Contact socket (16-18)
20	117586	1	• CONNECTOR, Receptacle (12-pin)
21	117588	1	• CONNECTOR, Receptacle (12-pin wedge)
22	117590	10	• CONNECTOR, Contact pin (16-18)
23	117594	12	• CONNECTOR, Sealing plug
24	117579	1	• CONNECTOR, Plug (4-pin)
25	117581	1	• CONNECTOR, Plug (4-pin wedge)
26	109892	1	• TERMINAL, Lock fork ((#10), 14-16GA blue)
27	156219	2	• TERMINAL, M8 ring (5.0mm <sup>2</sup> )
28	164579	1	• CONNECTOR, Circular (4F, 2.5mm)
29	164580	1	• STRAIN RELIEF, Straight
30	164581	3	• TERMINAL, Female (1.0 - 0.5mm <sup>2</sup> , 2.5mm circ.)
31	164578	5	• SEAL, Wire (Light Blue, 1.2 - 2.1mm)
32	156172	1	• PLUG, Cavity (JPT)
33	156163	1	• ASSEMBLY, Connector (2F, AMP)
34	156174	2	• TERMINAL, Female (1.0 - 0.5mm <sup>2</sup> , JPT)
35	156127	1	• CONNECTOR, Fuse holder (2F, 630 M/P)
36	156118	2	• TERMINAL, Female (5.0 - 3.0mm <sup>2</sup> , 630 M/P, pull-to-seat)
37	156164	1	• FUSE, ATO (30A)
38	156117	1	• COVER, Inline Autofuse
39	156221	1	• TERMINAL, Ring (M10 2 x 1.0-0.8 mm <sup>2</sup> )
40	105359	2	• TERMINAL, Spade - female (14-16GA insulated blue)
41	117593	2	• CONNECTOR, Plug (8 pin)
42	117585	2	• CONNECTOR, Wedge - plug (8 pin)
43	117591	11	• CONNECTOR, Socket - contact (16-18)
44	224607	1	• CONNECTOR, Housing - socket (HDSCS, 8 pin)
45	224608	7	• CONNECTOR, Seal (HDSCS)
46	224609	1	• CONNECTOR, Plug - blind (HDSCS)

# 7.5 Engine Harness - Deutz TCD2.2



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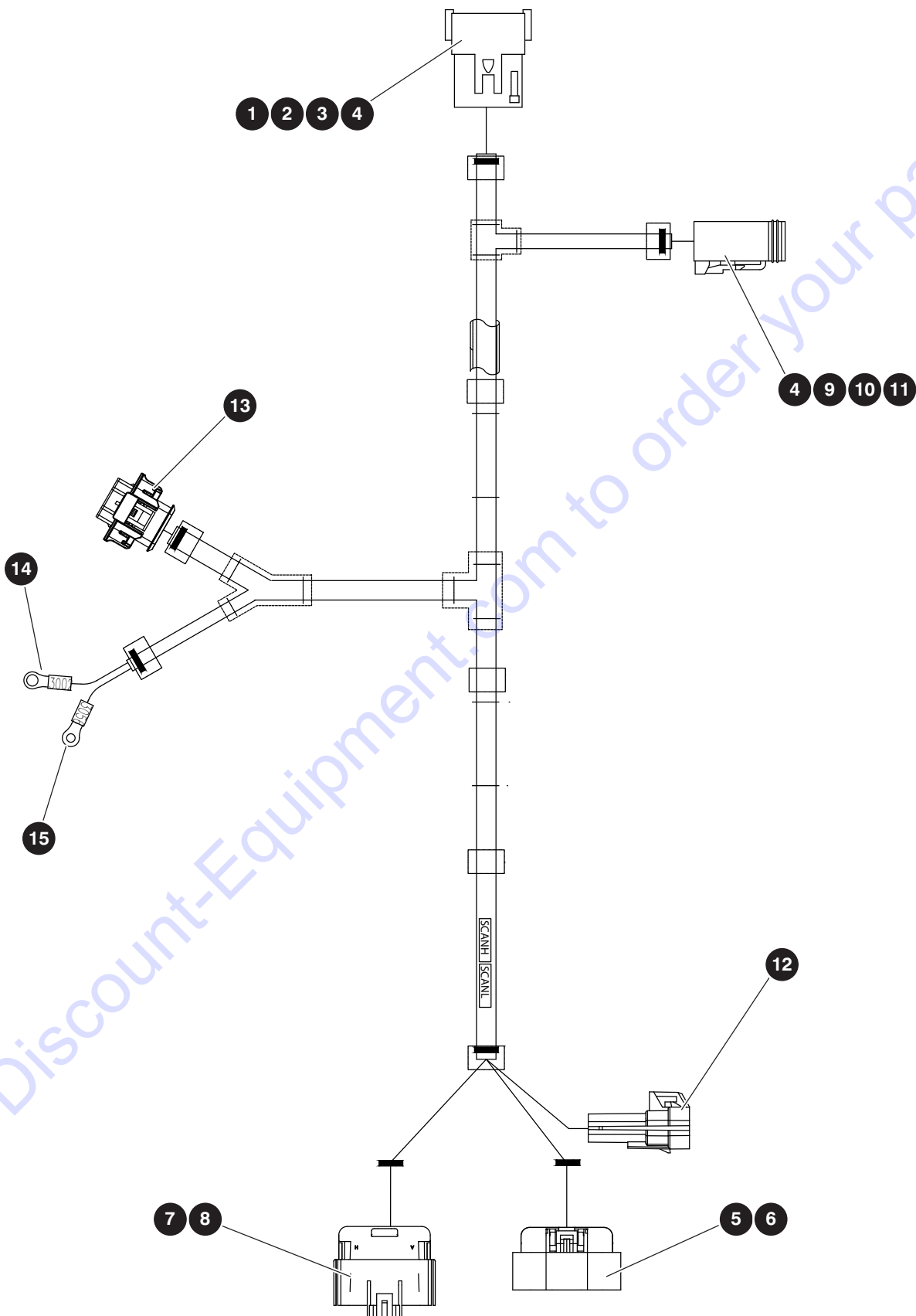
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## 7.5 Engine Harness - Deutz TCD2.2

Index No.	Skyjack Part No.	Qty.	Description
47	224610	7	• CONNECTOR, Socket - receptacle
48	224611	1	• CONNECTOR, Housing (2 pin)
49	224612	2	• CONNECTOR, Contact (pin, 18 AWG)
50	224613	2	• CONNECTOR, Seal (18 AWG)



## 7.6 Engine Harness - Kubota WG3800



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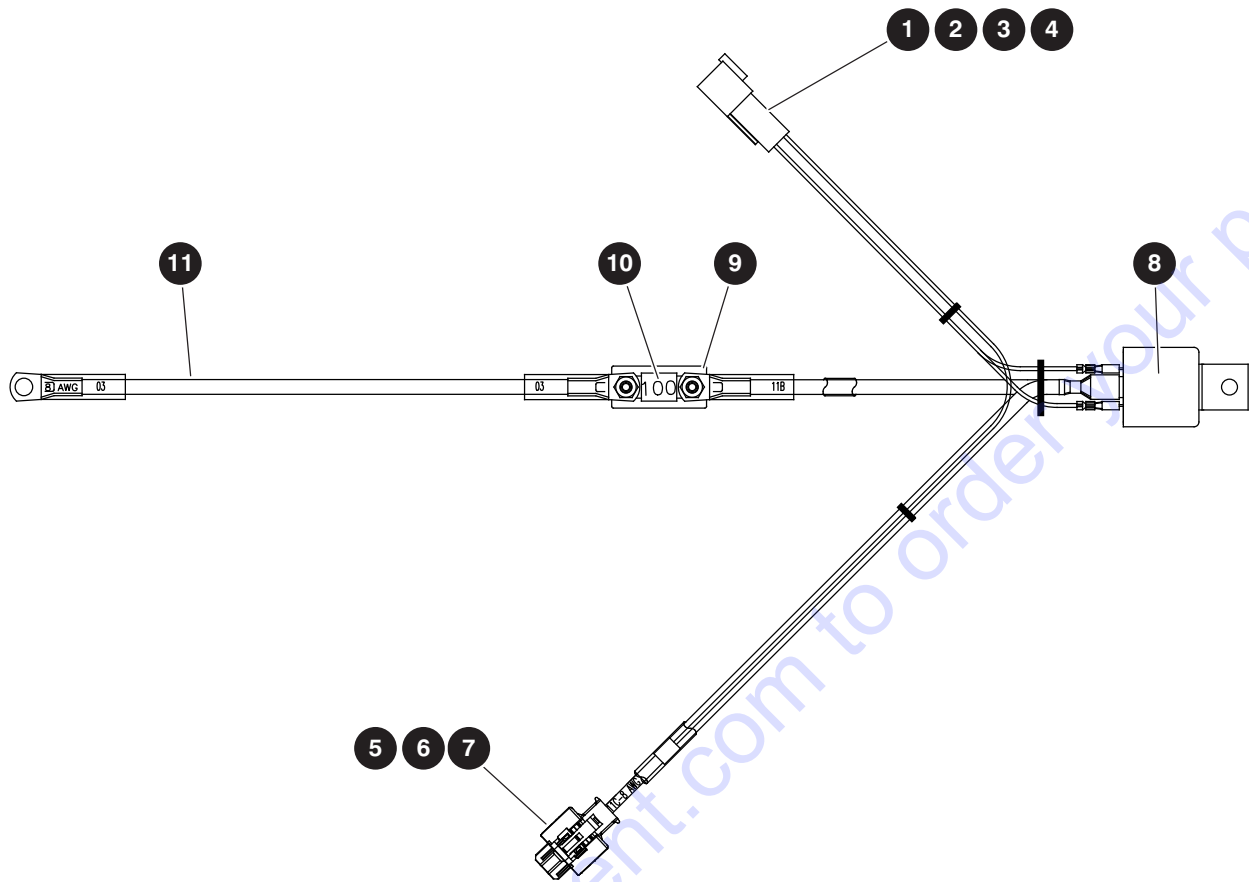
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## 7.6 Engine Harness - Kubota WG3800

Index No.	Skyjack Part No.	Qty.	Description
-	198216	1	ENGINE HARNESS - <b>Kubota WG3800</b>
1	117586	1	• CONNECTOR, Receptacle - 12-pin
2	117588	1	• CONNECTOR, Receptacle - 12-pin wedge
3	117590	8	• CONNECTOR, Contact pin (16-18)
4	117594	6	• CONNECTOR, Sealing plug
5	142361	1	• HOUSING, Female - 150 GT sealed 16 way
6	142362	5	• TERMINAL, Female - 150 GT series
7	142363	1	• HOUSING, Male - 150 GT sealed 16 way
8	142364	8	• TERMINAL, Male - 150 GT series
9	117591	4	• CONNECTOR, Contact socket - 16-18
10	156180	1	• CONNECTOR, 6F DT
11	156194	1	• WEDGE, Plug
12	166481	1	• CONNECTOR, 4M 150 M/P
13	170221	1	• CONNECTOR, 4M Kompact 1.1 m
14	119752	1	• TERMINAL, Ring - red (#10)
15	144337	1	• TERMINAL, Ring - red (#8)

## 7.7 Glow Plug Harness - Deutz TCD2.2



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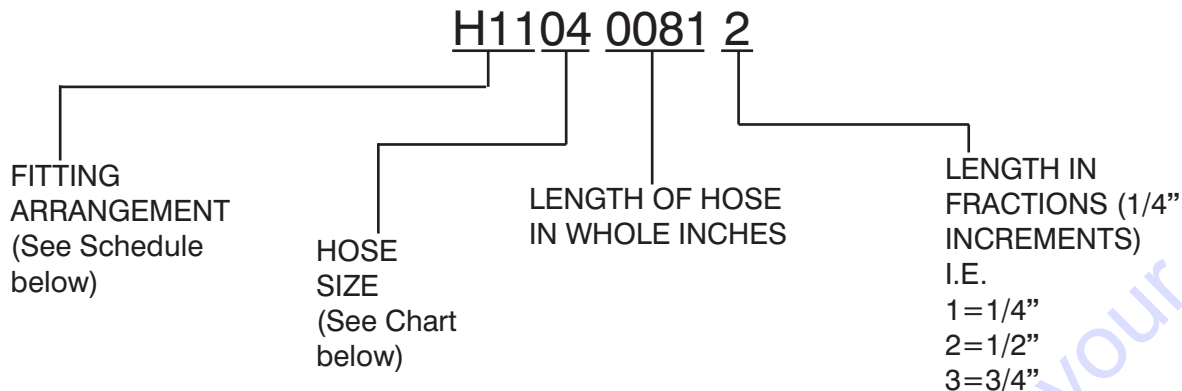
Index No.	Skyjack Part No.	Qty.	Description
-	206143	1	HARNES ASSEMBLY, Glow Plug - <i>Deutz TCD2.2 engine</i>
-	206099	1	• HARNESS, Glow plug
1	117578	1	• • RECEPTACLE, Connector (4 pin)
2	117580	1	• • RECEPTACLE, Connector (4 pin wedge)
3	117590	3	• • CONTACT PIN, Connector (16-18)
4	117594	1	• • SEALING PLUG, Connector
5	206100	1	• • CONNECTOR, 1 pole NG1 female
6	206109	1	• • TERMINAL, female (10MM2, 8NG1)
7	165052	1	• • SEAL, Wire - orange (4.3-6.0 mm, 8NG1)
8	165029	1	• RELAY, 150A (12V SPST)
9	165030	1	• HOLDER, Fuse (Inline)
10	165031	1	• FUSE, Bolt-down (100A)
11	206144	1	• WIRE ASSEMBLY, Power (Glow plug)

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## Section 8 – Hose Connections

- 8.1 *Standard Hose Numbering System*
- 8.2 *Hydraulic Hoses – Boom*
- 8.3 *Hydraulic Hoses – Turret*
- 8.4 *Hydraulic Hoses – Drive & System Pumps*
- 8.5 *Hydraulic Hoses – Base*
- 8.6 *Fuel Lines – Deutz TD.9L & Deutz TCD2.2*
- 8.7 *Fuel Lines – Deutz D2011*
- 8.8 *Fuel Lines – Gasoline - Kubota WG3800*
- 8.9 *Fuel Lines – Propane - Kubota WG3800*
- 8.10 *Grease Line*

## 8.1 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**

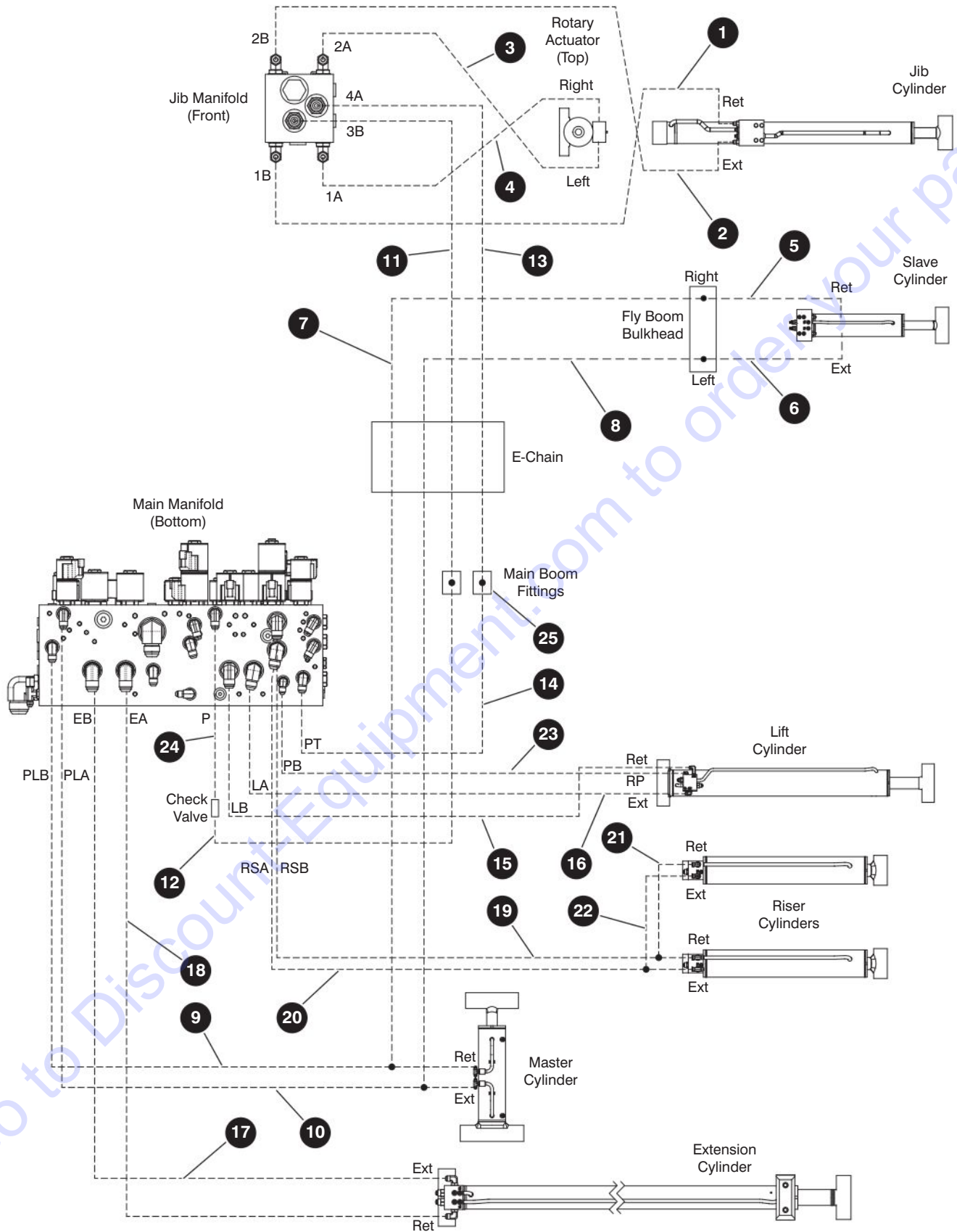
Hose Prefix	Hose End Fitting	Hose End Fitting	S.A.E. Hose Specification
H01	FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R17
H02	FEMALE, 37° JIC, SWIVEL	FEMALE, 37° JIC, SWIVEL	100R13
H03	FEMALE, 37° JIC, SWIVEL	45°, FEMALE, 37° JIC, SWIVEL	100R17
H04	FEMALE, 37° JIC, SWIVEL	45°, FEMALE, 37° JIC, 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

## 8.1 Standard Hose Numbering System

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



## 8.2 Hydraulic Hoses – Boom



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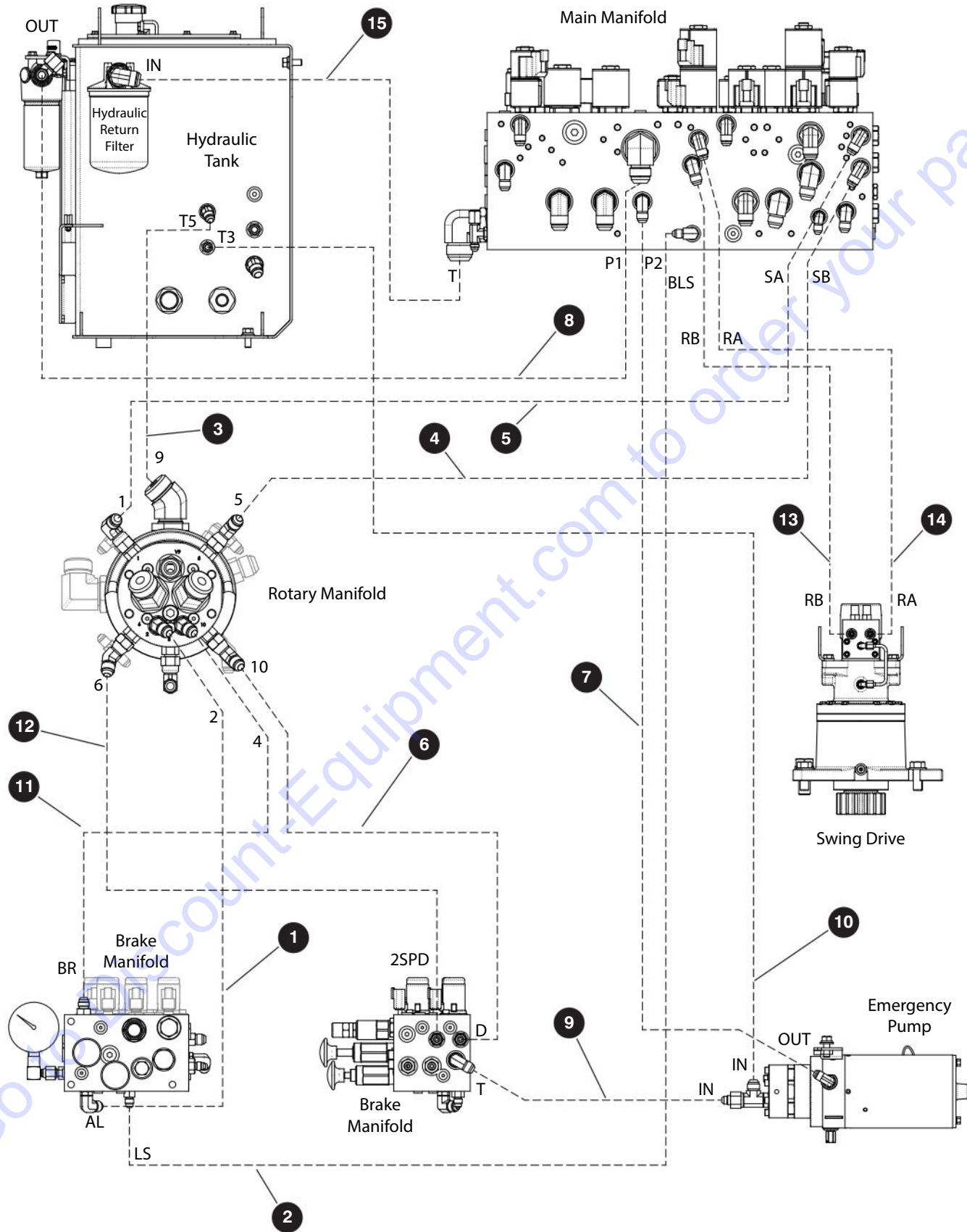
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## 8.2 Hydraulic Hoses – Boom

Index No.	Hose P/N	From		To	
		Description	Port	Port	Description
<b>A</b>	212864	JIB HOSE KIT			
1	H3104 0096 0	Jib Manifold	2B	Ext	Jib Cylinder
2	H3104 0096 0	Jib Manifold	1B	Ret	Jib Cylinder
3	H3404 0108 0	Rotary Actuator	Left	2A	Jib Manifold
4	H3404 0118 0	Rotary Actuator	Right	1A	Jib Manifold
5	H3206 0027 0	Fly Boom Bulkhead	Left	Ext	Slave Cylinder
6	H3206 0027 0	Fly Boom Bulkhead	Right	Ret	Slave Cylinder
<b>B</b>	197808	BOOM HOSE KIT			
7	H6006 0701 0	Master Cylinder	Ret	Right	Fly Boom Bulkhead
8	H6006 0701 0	Master Cylinder	Ext	Left	Fly Boom Bulkhead
9	H6006 0434 0	Main Manifold	PLB	Ret	Master Cylinder
10	H6006 0434 0	Main Manifold	PLA	Ext	Master Cylinder
11	H6006 0675 0	Jib Manifold	3B	-	Main Boom Fitting
12	H6006 0470 0	Main Boom Fitting	-	-	Inline Check Valve
13	H6006 0675 0	Jib Manifold	4A	-	Main Boom Fitting
14	H6006 0470 0	Main Boom Fitting	-	PT	Main Manifold
15	H6008 0440 0	Main Manifold	LB	Ret	Lift Cylinder
16	H6008 0440 0	Main Manifold	LA	Ext	Lift Cylinder
17	H6010 0466 0	Main Manifold	EB	Ext	Extension Cylinder
18	H6010 0466 0	Main Manifold	EA	Ret	Extension Cylinder
19	H3108 0220 0	Main Manifold	RSA	Ext	Left Riser Cylinder
20	H3108 0220 0	Main Manifold	RSB	Ret	Left Riser Cylinder
21	H3108 0035 0	Left Riser Cylinder	Ret	Ret	Right Riser Cylinder
22	H3108 0035 0	Left Riser Cylinder	Ext	Ext	Right Riser Cylinder
23	H6004 0440 0	Main Manifold	LPB	RP	Lift Cylinder
24	H3106 0012 0	Main Manifold	P	-	Inline Check Valve
Index No.	Skyjack Part No.	Qty.	Description		
25	131732	96"	SLEEVE, Hose protection (HG-46) (not shown), <b>A</b>		
26	162110	2	FITTING, Straight (06JICM-06JICM), <b>B</b>		
27	131732	12"	SLEEVE, Hose protection (HG-46) (not shown), <b>B</b>		

### 8.3 Hydraulic Hoses – Turret



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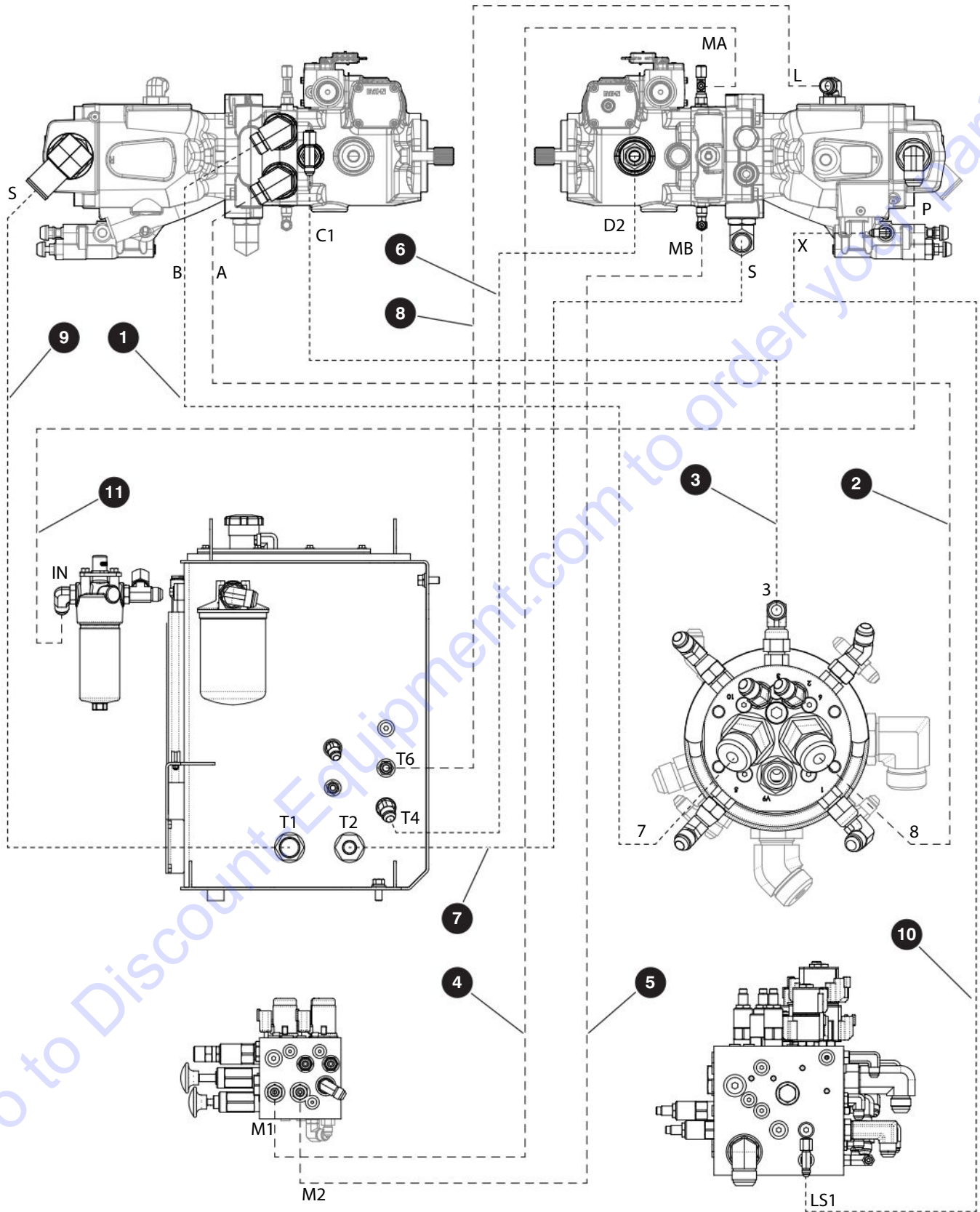
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## 8.3 Hydraulic Hoses – Turret

Index No.	Hose P/N	From		To	
		Description	Port	Port	Description
-	198206	TURRET HOSE KIT			
1	H3106 0062 0	Brake Manifold	AL	2	Rotary Manifold
2	H3404 0022 0	Brake Manifold	LS	BLS	Main Manifold
3	H3210 0045 0	Rotary Manifold	9	T5	Hydraulic Tank
4	H3106 0031 0	Main Manifold	SB	5	Rotary Manifold
5	H3106 0037 0	Main Manifold	SA	1	Rotary Manifold
6	H3406 0070 0	Brake Manifold	D	10	Rotary Manifold
7	H3206 0026 0	E-Pump	OUT	P2	Main Manifold
8	H3212 0035 0	High Pressure Filter	OUT	P1	Main Manifold
9	H3406 0030 0	E-Pump	IN	T	Brake Manifold
10	H3408 0019 0	E-Pump	IN	T3	Hydraulic Tank
11	H3406 0085 0	Brake Manifold	BR	4	Rotary Manifold
12	H3506 0065 0	Brake Manifold	2SPD	6	Rotary Manifold
13	H3506 0049 0	Swing Drive	RB	RB	Main Manifold
14	H3506 0049 0	Swing Drive	RA	RA	Main Manifold
15	H3116 0028 0*	Main Manifold	T	IN	Hydraulic Return Filter
		*This hose is not included in the turret hose kit and must be ordered separately.			
Index No.	Skyjack Part No.	Qty.	Description		
16	131732	60"	SLEEVE, Nylon hose protection - HG-46 (not shown)		
17	171444	60"	Wrap, Spiral (1.00" dia) (not shown)		
18	163418	60"	SLEEVE, Nylon hose protection - HG-64 (not shown)		

## 8.4 Hydraulic Hoses – Drive & System Pumps



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## 8.4 Hydraulic Hoses – Drive & System Pumps

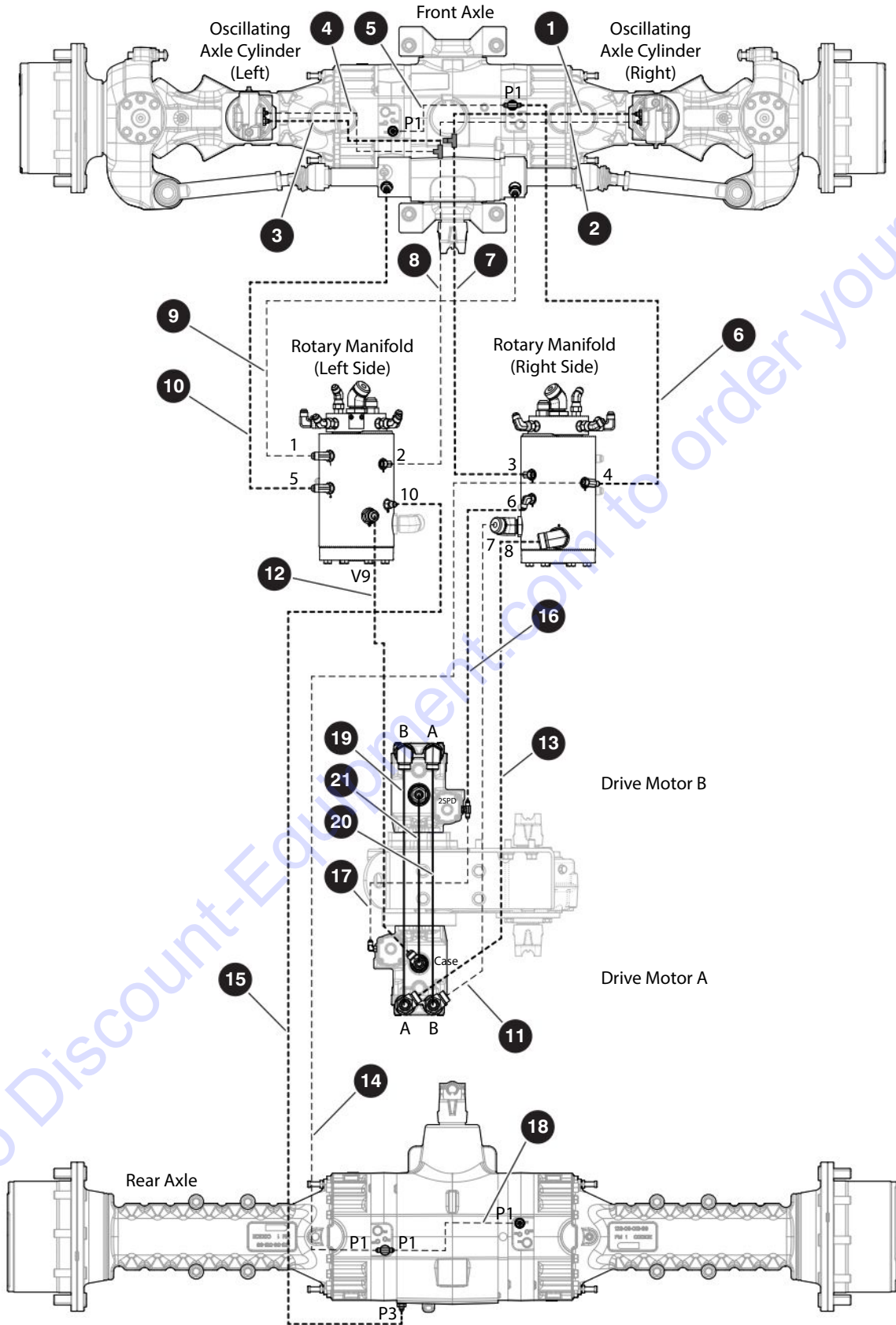
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		Description	Port	Port	Description
<b>A</b>	198205	DRIVE PUMP HOSE KIT			
1	H581200500	Rotary Manifold	7	B	Drive Pump
2	H591200530	Rotary Manifold	8	A	Drive Pump
3	H360600450	Rotary Manifold	3	C1	Drive Pump
4	H400400870	Drive Pump	MA	M1	Brake Manifold
5	H400400780	Drive Pump	MB	M2	Brake Manifold
6	H341200700	Drive Pump	D2	T4	Hydraulic Tank
7	H161600700	Drive Pump	S	T2	Hydraulic Tank
<b>B</b>	198204	SYSTEM PUMP HOSE KIT			
8	H311000750	System Pump	L	T6	Hydraulic Tank
9	H162400850	System Pump	S	T1	Hydraulic Tank
10	H310400700	System Pump	X	LS1	Main Manifold
11	H311200860	System Pump	P	IN	High Pressure Filter

Index No.	Skyjack Part No.	Qty.	Description
12	139177	2	CLAMP, MIKALOR 33-37 (not shown), <b>A</b>
13	131732	70"	SLEEVE, NYLON HOSE PROTECTION HG-46 (not shown), <b>A</b>
14	165481	2	CLAMP, MIKALOR 47-51 (not shown), <b>B</b>
15	131732	60"	SLEEVE, NYLON HOSE PROTECTION HG-46 (not shown), <b>B</b>



## 8.5 Hydraulic Hoses – Base



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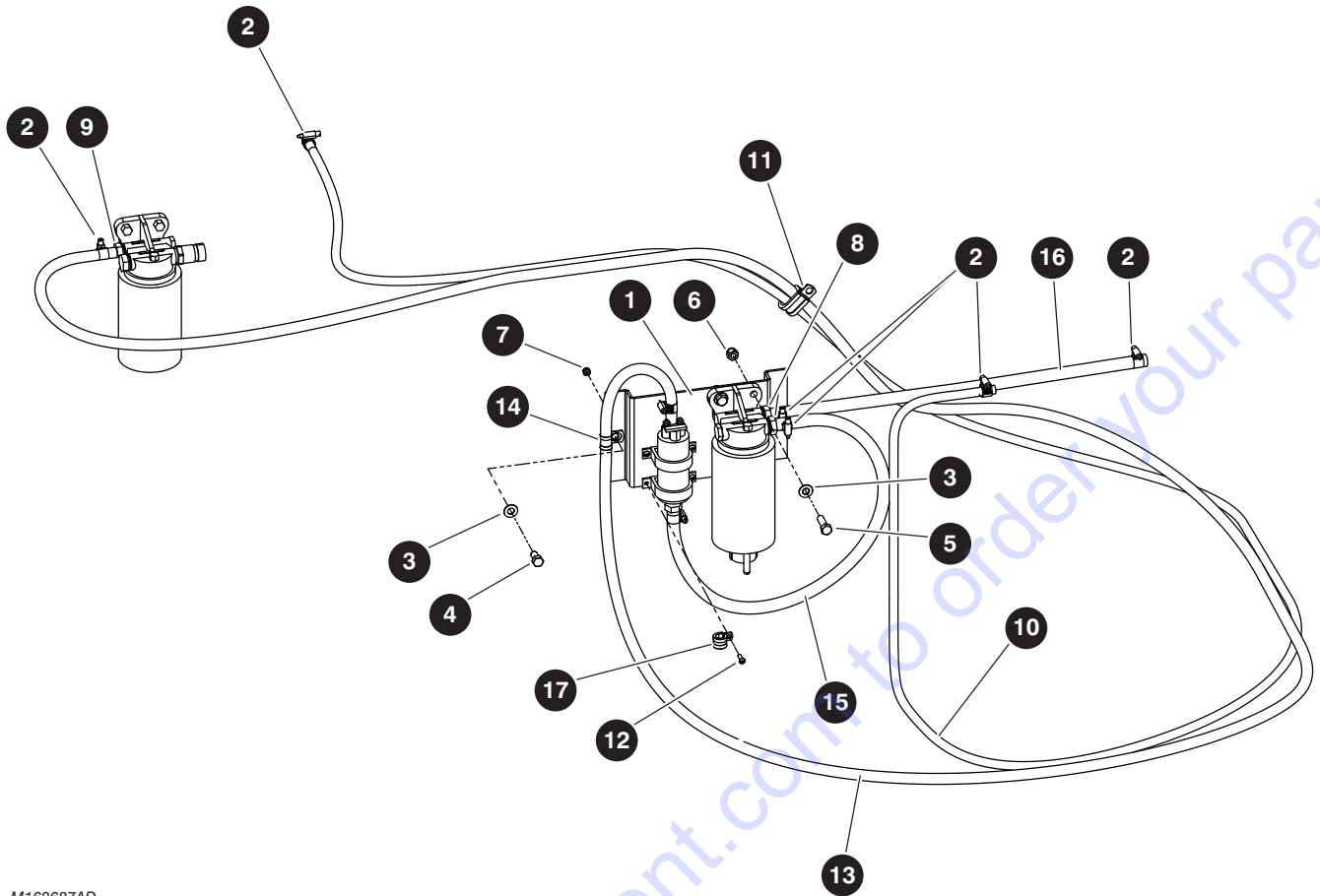
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## 8.5 Hydraulic Hoses – Base

Index No.	Hose P/N	From		To	
		Description	Port	Port	Description
-	198090	BASE HOSE KIT			
1	H510600200	Oscillating Cylinder - Right	06 Tee	06 Tee	Pressure Line
2	H510400200	Oscillating Cylinder - Right	04 Tee	04 Tee	Pressure Line
3	H510600200	Oscillating Cylinder - Left	06 Tee	06 Tee	Pressure Line
4	H510400200	Oscillating Cylinder - left	04 Tee	04 Tee	Pressure Line
5	H540400140	Front Axle	P1	P1	Front Axle
6	H540400620	Front Axle	P1	4	Rotary Manifold
7	H510400630	Rotary Manifold	3	06 Tee	Front Axle
8	H510400630	Rotary Manifold	2	04 Tee	Front Axle
9	H520600520	Rotary Manifold	1	Right	Steer Cylinder
10	H540600580	Rotary Manifold	5	Left	Steer Cylinder
11	H571200382	Drive Motor A	B	7	Rotary Manifold
12	H521000320	Rotary Manifold	V9	Case	Drive Motor A
13	H571200382	Drive Motor A	A	8	Rotary Manifold
14	H540400690	Rear Brake	Tee	4	Rotary Manifold
15	H540400710	Rear Axle	P3	10	Rotary Manifold
16	H510400210	Rotary Manifold	6	2SPD	Drive Motor
17	H540400240	Drive Motor B	2SPD	2SPD	Drive Motor A
18	H540400140	Rear Axle	P1	P1	Rear Axle
19	167063	Motor A	A	B	Motor B
20	167063	Motor A	B	A	Motor B
21	167064	Motor A	Case	Case	Motor B

Index No.	Skyjack Part No.	Qty.	Description
22	131697	1	FITTING, Tee (04JICM-04JICM-04JICM) (not shown)
23	131704	1	FITTING, Tee (06JICM-06JICM-06JICM) (not shown)
24	707041	1	FITTING, Straight (06JICF-04JICM) (not shown)

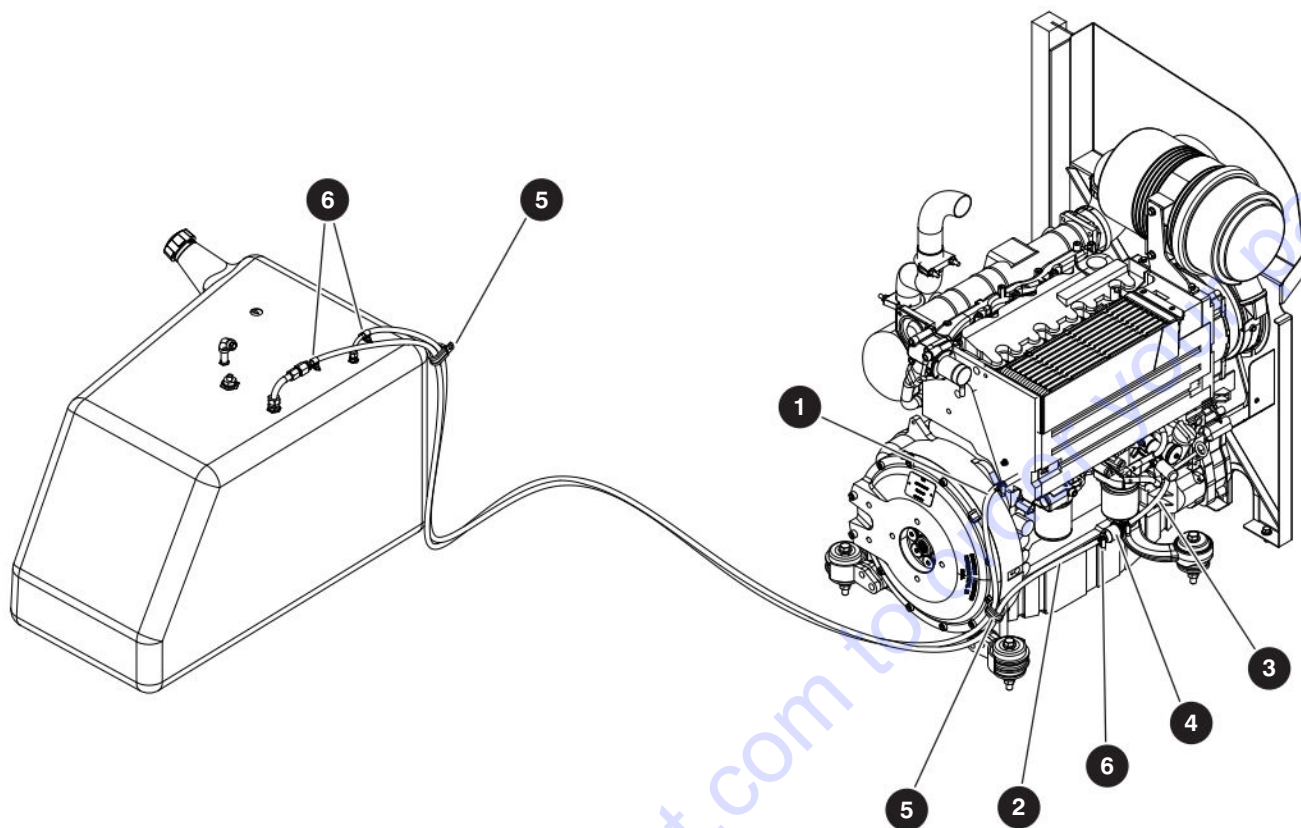
## 8.6 Fuel Lines – Deutz TD.9L & Deutz TCD2.2



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Index No.	Skyjack Part No.	Qty.	Description
-	168687	1	FUEL HOSE ASSEMBLY - <i>Deutz TD2.9L &amp; Deutz TCD2.2</i>
1	198453	1	• BRACKET, Fuel
2	163521	10	• CLAMP, Hose (#10)
3	103472	4	• WASHER, Flat (0.375")
4	101632	2	• BOLT, Hex head (0.375"-16 x 0.75" gr 5)
5	101297	2	• BOLT, Hex head (0.375"-16 x 1.25" gr 5)
6	104606	2	• NUT, Hex head nylon lock (0.375"-16 gr 5)
7	300450	4	• NUT, Hex head nylon lock (10-32 gr 5)
8	163222	2	• FITTING, Fuel hose
9	164977	1	• FITTING, Fuel hose (0.375")
10	102984	145"	• LINE, Fuel (0.3125")
11	103078	1	• CLIP, Double (S344G10)
12	120094	4	• SCREW, Round head machine (10-32 x 0.625")
13	166737	180"	• LINE, Fuel (0.375")
14	144129	1	• CLIP, Single (S332G10)
15	163509	32"	• LINE, Fuel (0.50")
16	163509	23"	• LINE, Fuel (0.50")
17	102929	1	• CLIP, Single

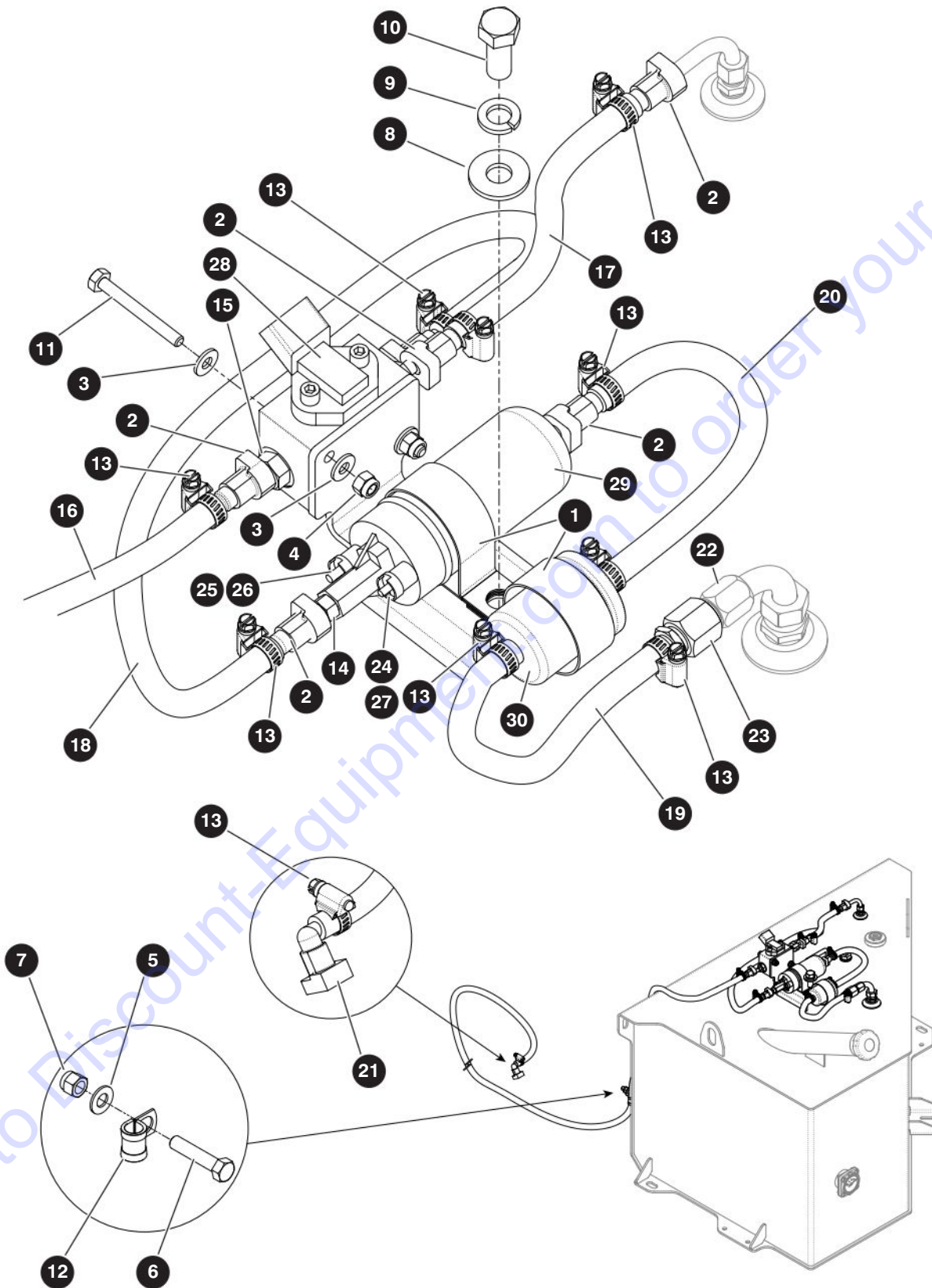
## 8.7 Fuel Lines – Deutz D2011



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Index No.	Skyjack Part No.	Qty.	Description
-	168710	1	FUEL LINE ASSEMBLY - <b>Deutz D2011</b>
1	102984	175"	• LINE, Fuel (0.3125")
2	102984	170"	• LINE, Fuel (0.3125")
3	102984	6"	• LINE, Fuel (0.3125")
4	139254	1	• FILTER, In-line fuel
5	103078	2	• CLIP, Double (S44G10)
6	116342	6	• CLAMP, Gear (SAE No. 8, 0.4375" - 1.00")

## 8.8 Fuel Lines – Gasoline - Kubota WG3800



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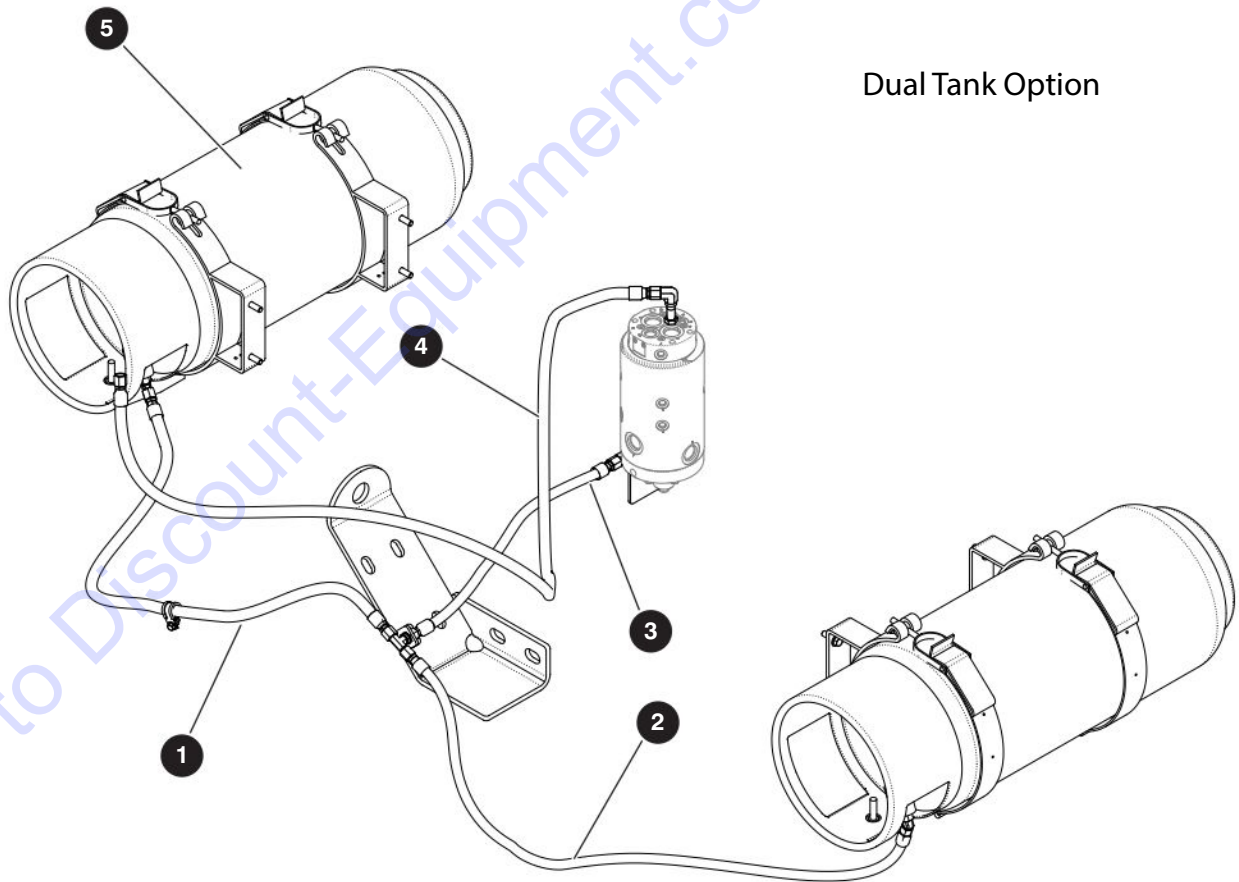
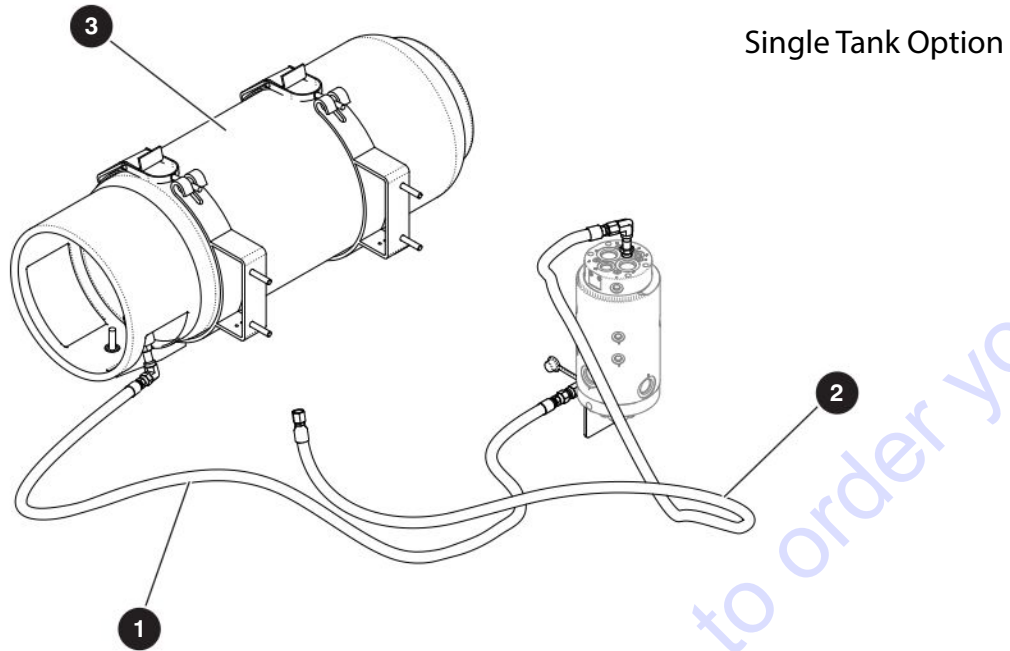
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## 8.8 Fuel Lines – Gasoline - Kubota WG3800

Index No.	Skyjack Part No.	Qty.	Description
-	198425	1	FUEL LINE ASSEMBLY - <b>Kubota WG3800</b>
1	171177	2	• CLAMP, Loop - vinyl coated (2")
2	142397	6	• FITTING, Straight - quick connect gas
3	103995	4	• WASHER, Flat (0.25")
4	115649	2	• NUT, Lock (0.25"-20 gr 5)
5	103472	2	• WASHER, Flat (0.375")
6	103871	1	• BOLT, Hex head (0.375"-16 x 1.75" gr 5)
7	104606	1	• NUT, Lock (0.375"-16 gr 5)
8	104379	1	• WASHER, Flat (0.50" hard)
9	103470	1	• WASHER, Lock (0.50" gr 5)
10	103909	1	• BOLT, Hex head (0.50"-13 x 1.25" gr 5)
11	103862	2	• BOLT, Hex head (0.25"-20 x 2.25" gr 5)
12	144129	1	• CLIP, Single (S332G10)
13	103321	10	• CLAMP, Gear
14	170571	2	• STEM, Quick connect (8 mm tube SAE #3)
15	170572	2	• STEM, Quick connect (8 mm tube SAE #6)
16	142405	135"	• FUEL LINE, Setiflex II (0.3125")
17	142405	8"	• FUEL LINE, Setiflex II (0.3125")
18	142405	24"	• FUEL LINE, Setiflex II (0.3125")
19	142405	8"	• FUEL LINE, Setiflex II (0.3125")
20	142405	12"	• FUEL LINE, Setiflex II (0.3125")
21	142398	1	• FITTING, 90° fuel quick connect
22	165716	1	• FITTING, Straight adapter (08BT-06FP)
23	165719	2	• FITTING, Beaded hose bard (0.313" tube)
24	118369	1	• WASHER, Lock (M4)
25	133339	1	• WASHER, Lock - ext tooth (M5)
26	133872	1	• NUT, Hex (M5-0.8)
27	118367	1	• NUT, Hex (M4-0.7)
28	164883	1	MANIFOLD, Fuel pressure
29	164881	1	PUMP, Fuel - Kubota
30	136118	1	FILTER, Fuel - Kubota



## 8.9 Fuel Lines – Propane - Kubota WG3800



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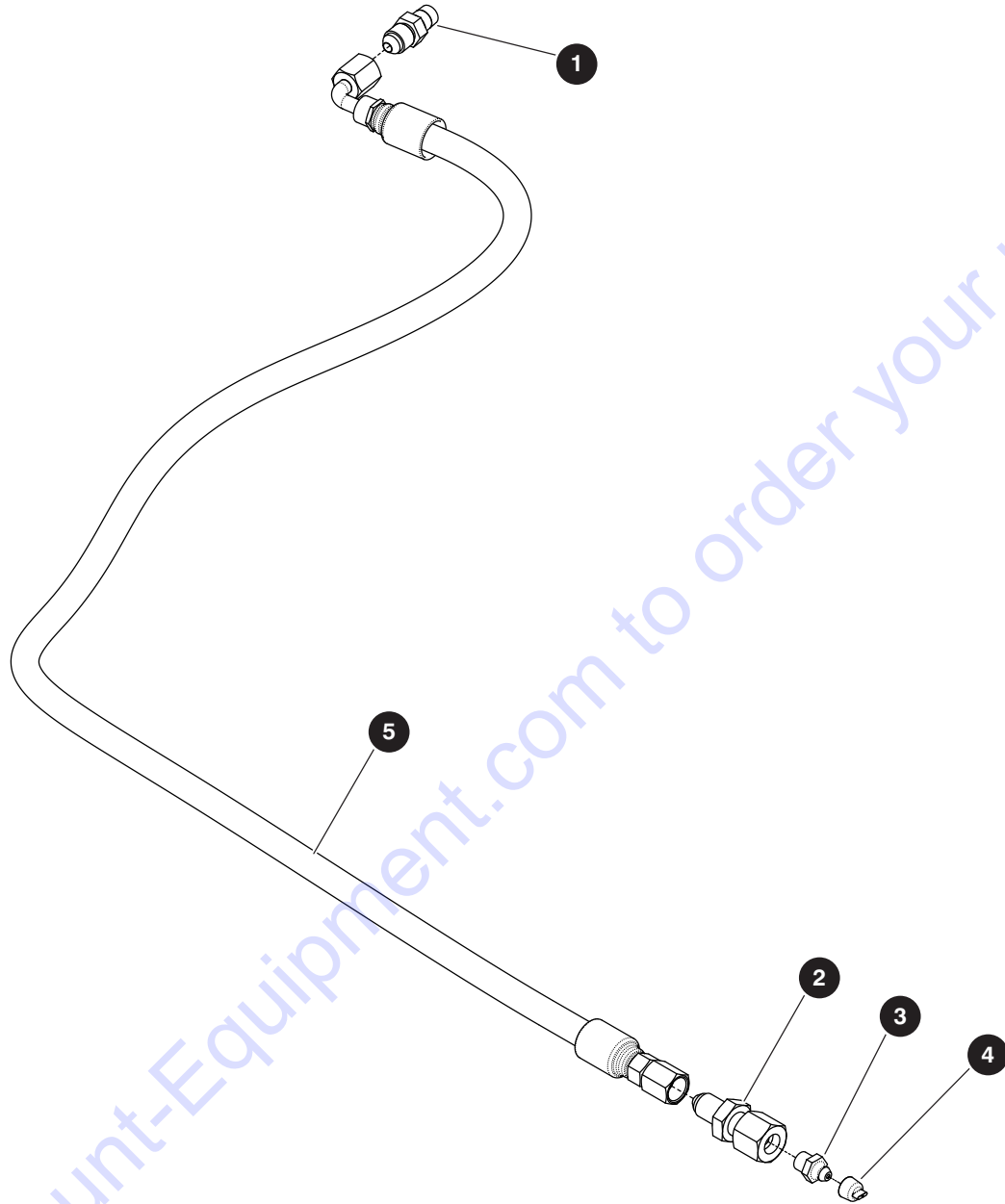
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## 8.9 Fuel Lines – Propane - Kubota WG3800

Index No.	Skyjack Part No.	Qty.	Description
-	198196	1	SINGLE PROPANE TANK - Kubota WG3800
1	152265	1	<ul style="list-style-type: none"> <li>• HOSE, Propane (45 SAE x 84")</li> <li>• HOSE, Propane (45 SAE x 103")</li> <li>• PROPANE TANK ASSEMBLY &amp; FITTINGS - Single tank (For components, refer to 5.20 Propane Tanks)</li> </ul>
2	144327	1	
3	(Ref.)	1	
-	198491	1	DUAL PROPANE TANK - Kubota WG3800
1	211859	1	<ul style="list-style-type: none"> <li>• HOSE, Propane (45 SAE x 53")</li> <li>• HOSE, Propane (45 SAE x 50")</li> <li>• HOSE, Propane (45 SAE x 25")</li> <li>• HOSE, Propane (45 SAE x 103")</li> <li>• PROPANE TANK ASSEMBLY &amp; FITTINGS - Dual tanks (For components, refer to 5.20 Propane Tanks)</li> </ul>
2	211858	1	
3	211857	1	
4	144327	1	
5	(Ref.)	1	

## 8.10 Grease Line



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Index No.	Skyjack Part No.	Qty.	Description
-	198008	1	GREASE LINE SUBGROUP
1	405588	1	• FITTING, Straight (02NPTM-04JICM)
2	406595	1	• FITTING, Straight bulkhead (02NPTF-04JICM)
3	102027	1	• FITTING, Grease straight (1/8 NPT)
4	132565	1	• CAP, Grease (GC5)
5	H540400680	1	• HOSE, Hydraulic (0.25"/100R17 x 68" lg)

## Section 9 – Optional Equipment

**9.1** *Oil Cooler with No Generator*

**9.2** *Oil Cooler*

**9.3** *Generator and Cooler Assembly - 3.5 kW*

**9.4** *Generator - 3.5 kW*

**9.5** *Generator and Cooler Assembly - 7.5 kW*

**9.6** *Generator - 7.5 kW*

**9.7** *Generator and Cooler Assembly - 12 kW*

**9.8** *Generator - 12 kW*

**9.9** *Generator and Oil Cooler Wiring*

**9.10** *Welder*

**9.11** *Pipe Rack*

**9.12** *External Railing*

**9.13** *Control Box Cover*

**9.14** *Tool Caddy*

**9.15** *Work Lights*

**9.16** *Flashing Light*

**9.17** *All Motion Alarm*

**9.18** *Residual Current Device (RCD)*

**9.19** *Diesel Scrubber*

**9.20** *Positive Air Shut-off Option*

**9.21** *Hostile Environment*

**9.22** *Cold Start Package*

**9.23** *Arctic Package*

**9.24** *Load Circuit*

**9.25** *Block Heater*

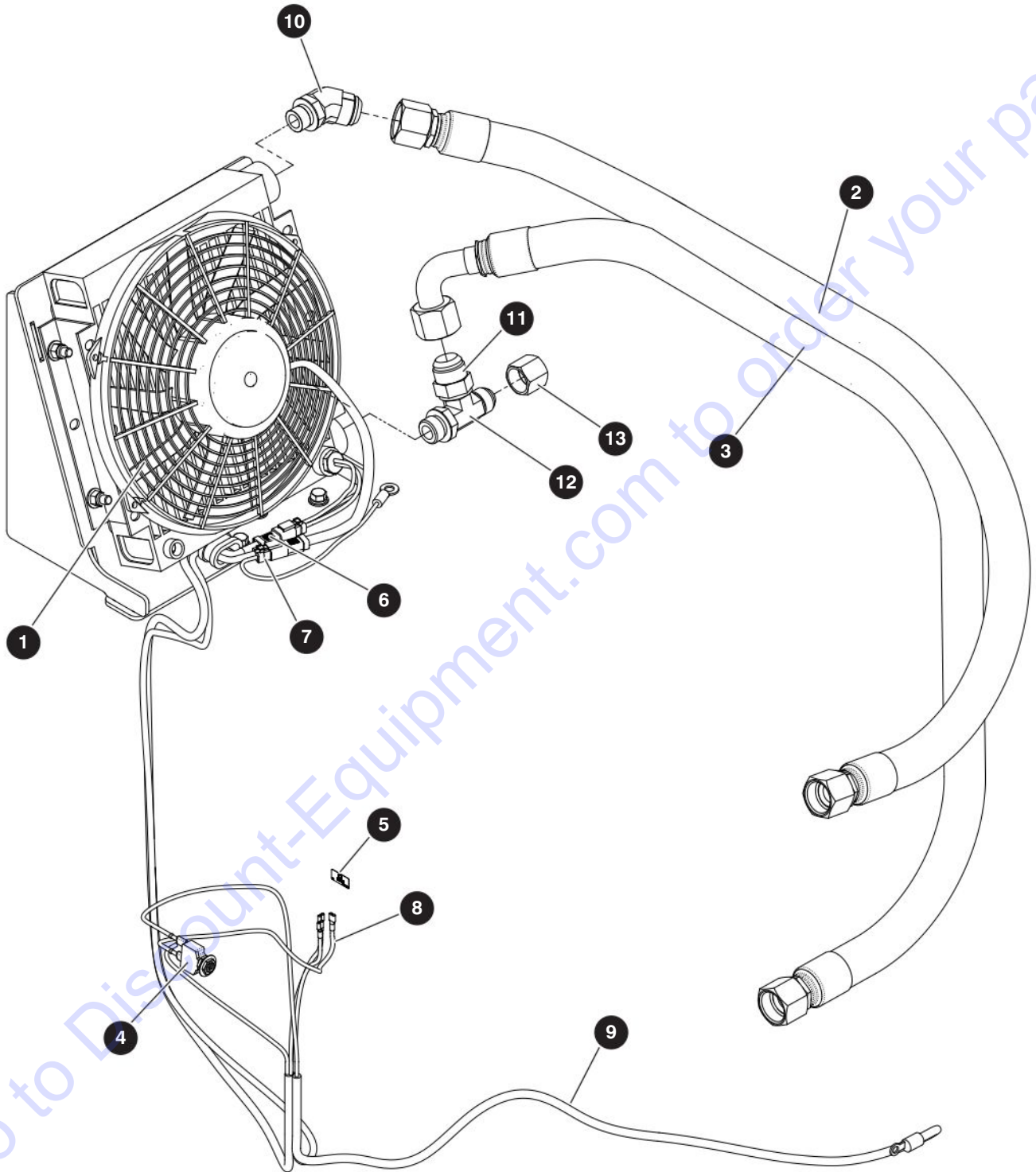
**9.26** *Air Line to Platform*

**9.27** *Half-Height Platform Mesh*

**9.28** *Elevate Telematics*

**9.29** *Elevate Telematics Subscription*

## 9.1 Oil Cooler with No Generator



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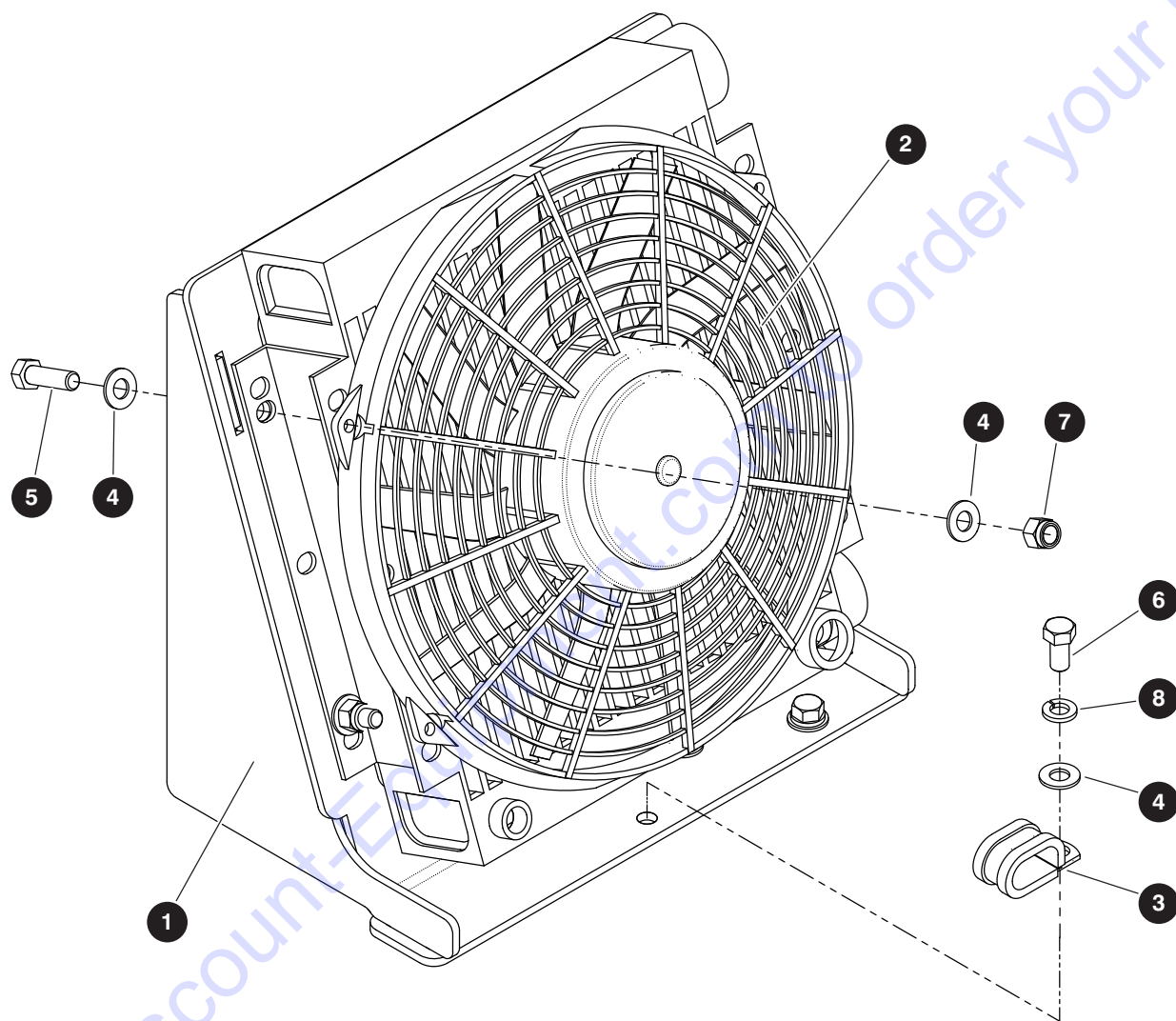
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## 9.1 Oil Cooler with No Generator

Index No.	Skyjack Part No.	Qty.	Description
-	198475	1	OIL COOLER WITH NO GENERATOR
1	167129	1	<ul style="list-style-type: none"> <li>OIL COOLER (For components, refer to 9.2 Oil Cooler)</li> </ul>
-	198476	1	<ul style="list-style-type: none"> <li>OIL COOLER HOSE KIT</li> </ul>
2	H251600510	1	<ul style="list-style-type: none"> <li>HOSE, Hydraulic (1.00" / 100R4 x 51")</li> </ul>
3	H381600580	1	<ul style="list-style-type: none"> <li>HOSE, Hydraulic (1.00 / 100R4 x 58")</li> </ul>
-	212870	1	<ul style="list-style-type: none"> <li>OIL COOLER ELECTRICAL ASSEMBLY</li> </ul>
4	117326	1	<ul style="list-style-type: none"> <li>BREAKER, Circuit (20 amp)</li> </ul>
5	144193	1	<ul style="list-style-type: none"> <li>LABEL, Cooler relay 86CR</li> </ul>
6	148485	1	<ul style="list-style-type: none"> <li>HARNESS, Cooler temperature switch</li> </ul>
7	148484	1	<ul style="list-style-type: none"> <li>HARNESS, Cooler fan</li> </ul>
8	212869	1	<ul style="list-style-type: none"> <li>WIRE, Cooler relay</li> </ul>
9	144074	1	<ul style="list-style-type: none"> <li>HARNESS, Cooler power</li> </ul>
10	152552	1	<ul style="list-style-type: none"> <li>FITTING, 45° (16JICM-12ORBM)</li> </ul>
11	168652	1	<ul style="list-style-type: none"> <li>FITTING, Straight (12JICF-16JICM)</li> </ul>
12	144116	1	<ul style="list-style-type: none"> <li>FITTING, Run tee (12JICM-12ORBM-12JICM)</li> </ul>
13	131753	1	<ul style="list-style-type: none"> <li>FITTING, Cap (12JICF)</li> </ul>



## 9.2 Oil Cooler



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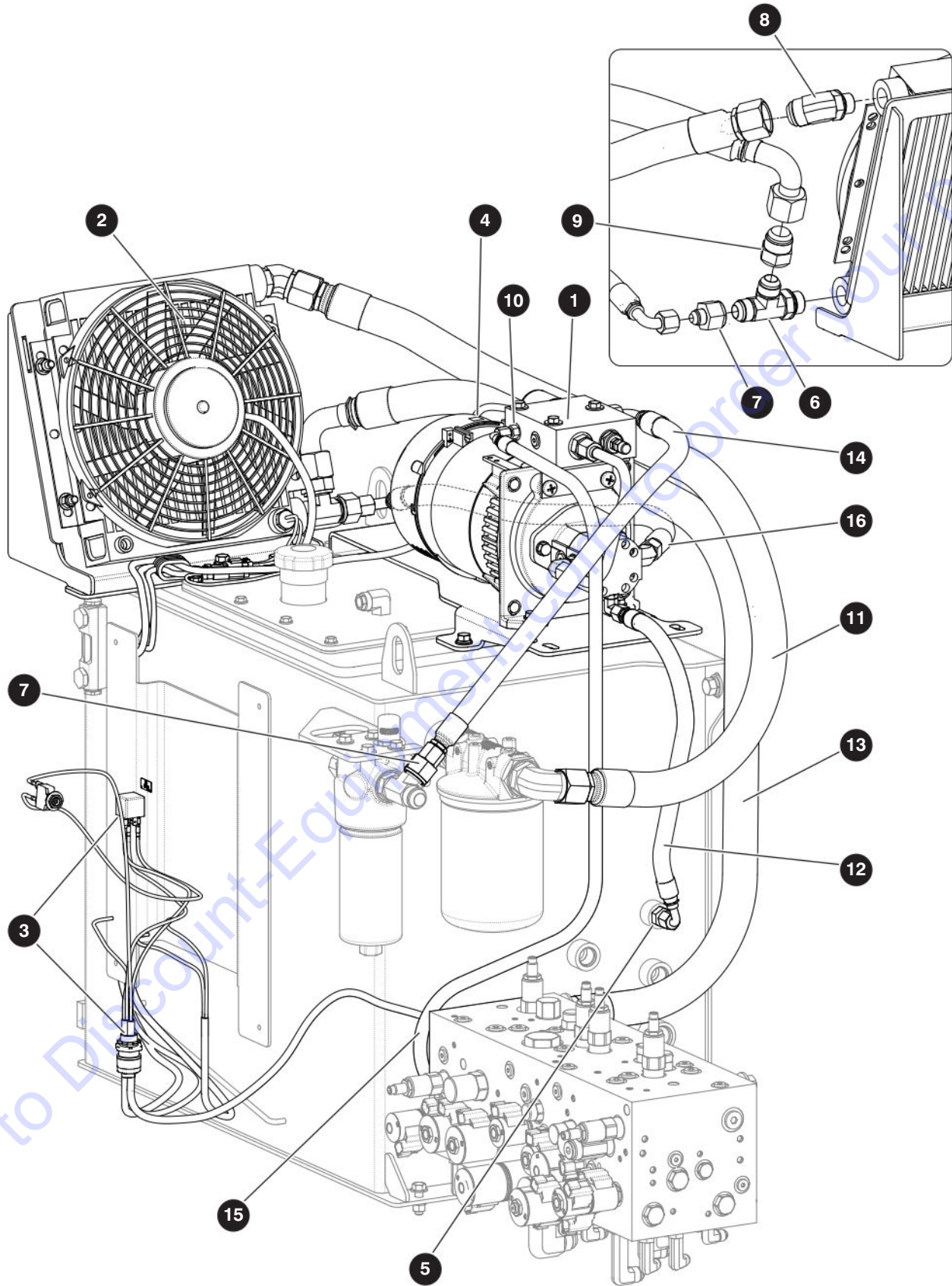
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## 9.2 Oil Cooler

Index No.	Skyjack Part No.	Qty.	Description
-	167129	1	OIL COOLER ASSEMBLY
1	167121	1	• MOUNT, Oil cooler
2	160800	1	• COOLER, Oil - hydraulic (12V DC)
3	103078	1	• CLIP, Double
4	103472	11	• WASHER, Flat (0.375")
5	101297	4	• BOLT, Hex head (0.375"-16 x 1.25" gr 5)
6	101632	3	• BOLT, Hex head (0.375"-16 x 0.75" gr 5)
7	104606	4	• NUT, Hex head lock (0.375"-16 gr 5)
8	103999	3	• WASHER, Lock (0.375")

## 9.3 Generator and Cooler Assembly - 3.5 kW



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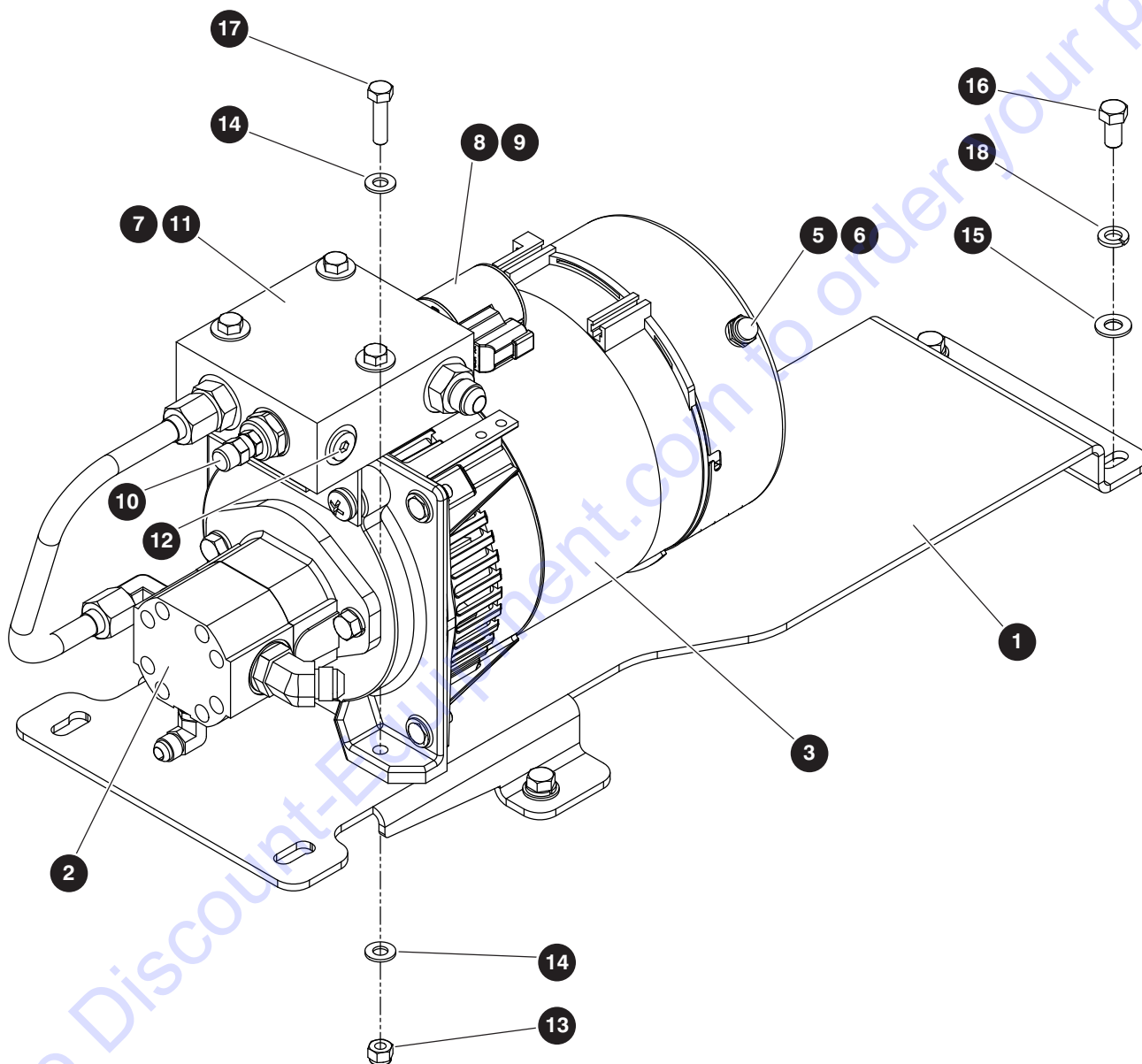
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## 9.3 Generator and Cooler Assembly - 3.5 kW

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	198047	1	3.5 kW GENERATOR AND OIL COOLER ASSEMBLY (60 Hz) - <b>ANSI/CSA</b>
<b>B</b>	198048	1	3.5 kW GENERATOR AND OIL COOLER ASSEMBLY (50 Hz) - <b>CE</b>
1	(Ref.)	1	<ul style="list-style-type: none"> <li>• 3.5 kW GENERATOR (For components, refer to 9.4 Generator - 3.5 kW)</li> </ul>
2	(Ref.)	1	<ul style="list-style-type: none"> <li>• OIL COOLER ASSEMBLY (For components, refer to 9.2 Oil Cooler)</li> </ul>
3	(Ref.)	1	<ul style="list-style-type: none"> <li>• ELECTRICAL ASSEMBLY (For components, refer to 9.9 Generator and Oil Cooler Wiring)</li> </ul>
4	117390	1	<ul style="list-style-type: none"> <li>• LABEL, Push to reset generator</li> </ul>
5	103070	1	<ul style="list-style-type: none"> <li>• FITTING, Straight (06JICM-08ORBM)</li> </ul>
6	144116	1	<ul style="list-style-type: none"> <li>• FITTING, Run tee (12JICM-12ORBM-12JICM)</li> </ul>
7	703412	1	<ul style="list-style-type: none"> <li>• FITTING, Straight (12JICF-08JICM)</li> </ul>
8	152552	1	<ul style="list-style-type: none"> <li>• FITTING, 45° (16JICM-12ORBM)</li> </ul>
9	168652	1	<ul style="list-style-type: none"> <li>• FITTING, Straight (12JICF-16JICM)</li> </ul>
10	144474	1	<ul style="list-style-type: none"> <li>• FITTING, Straight (04JICM-04ORBM x 0.028 port)</li> </ul>

Index No.	Hose P/N	From		To	
		Description	Port	Port	Description
-	198079	<ul style="list-style-type: none"> <li>• HOSE ASSEMBLY, Generator - 3.5 kW</li> </ul>			
11	H2516 0051 0	Oil Cooler	OUT	IN	Hydraulic return filter
12	H5406 0021 0	Generator	Case	T7	Hydraulic tank
13	H3816 0058 0	Oil Cooler	IN	T	Main manifold
14	H5408 0031 0	Generator	P3	OUT	High pressure filter
15	H5404 0044 0	Generator	P2	LS1	Main manifold
16	H5408 0026 0	Oil Cooler	IN	OUT	Generator

## 9.4 Generator - 3.5 kW



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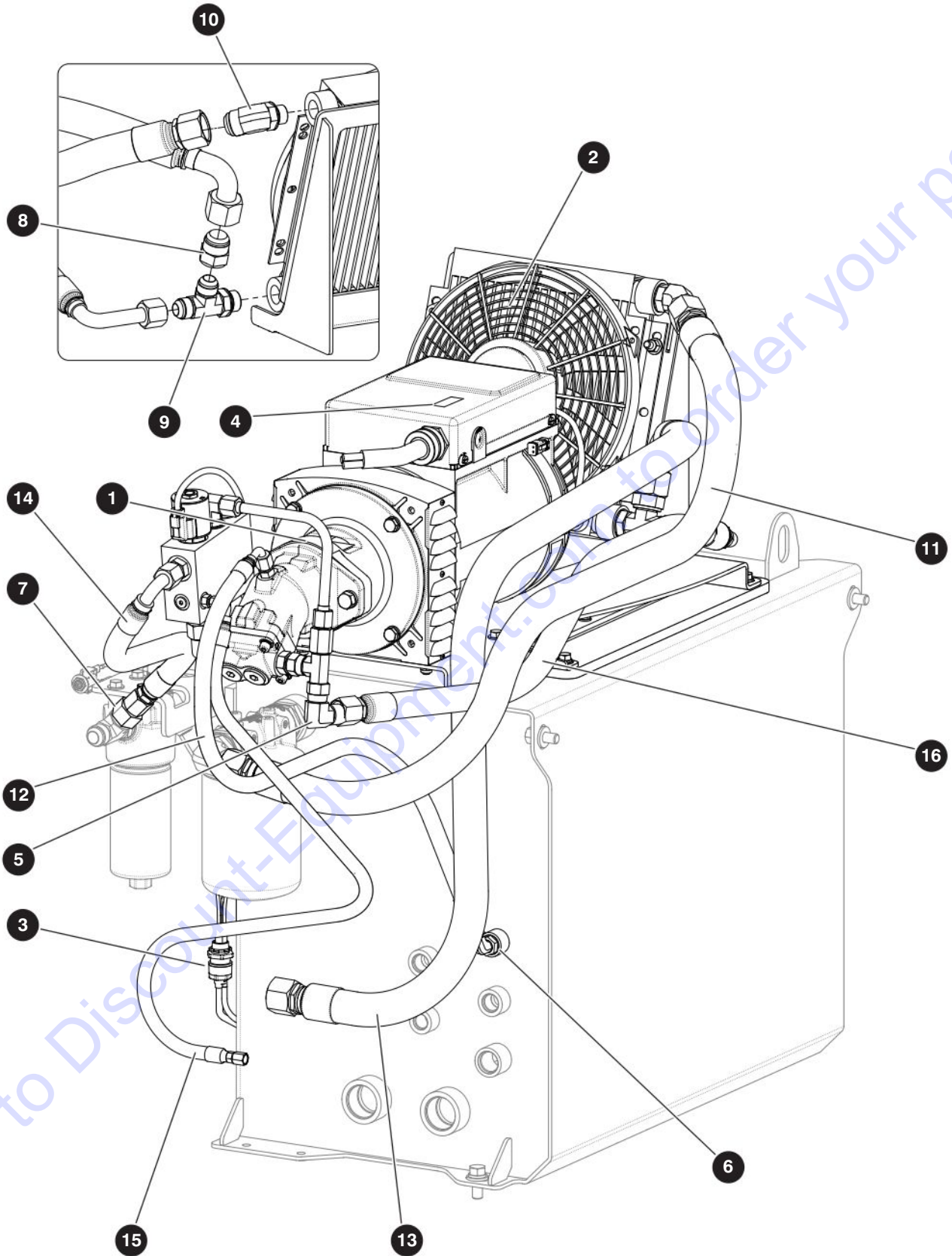
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## 9.4 Generator - 3.5 kW

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	168699	1	GENERATOR ASSEMBLY - 3.5 kW 60Hz - <b>ANSI/CSA</b>
<b>B</b>	167122	1	GENERATOR ASSEMBLY - 3.5 kW 50Hz - <b>CE</b>
1	167118	1	• BRACKET, Generator mounting
-	166448	1	• GENERATOR, 3.5kW - 60Hz, <b>A</b>
-	166450	1	• GENERATOR, 3.5kW - 50Hz, <b>B</b>
2	171419	1	• • MOTOR, Hydraulic - 5 cc
3	197773	1	• • ALTERNATOR, Generator - 60 Hz, <b>A</b>
-	197774	1	• • ALTERNATOR, Generator - 50 Hz, <b>B</b>
4	197775	1	• • CORD, GFI (not shown)
5	117325	1	• • BREAKER, Circuit - 15 amp
6	162508	1	• • BOOT, Circuit breaker
-	168618	1	• • MANIFOLD, Generator - 3.5 kW
7	197769	1	• • • BLOCK, Manifold
8	168056	1	• • • VALVE, Solenoid
9	168057	1	• • • COIL, Solenoid
10	171450	1	• • • VALVE, Flow control
11	197770	1	• • • VALVE, Check
12	710508	1	• • • FITTING, Plug hollow hex (06ORB)
13	103984	3	• NUT, Hex head (0.312"-18, Grade 5)
14	103996	6	• WASHER, Flat (0.312")
15	103472	4	• WASHER, Flat (0.375")
16	101632	4	• BOLT, Hex head (0.375"-16 x 0.75", Grade 5)
17	112532	3	• BOLT, Hex head (0.312"-18 x 1.25", Grade 5)
18	103999	4	• WASHER, Lock (0.375")



## 9.5 Generator and Cooler Assembly - 7.5 kW



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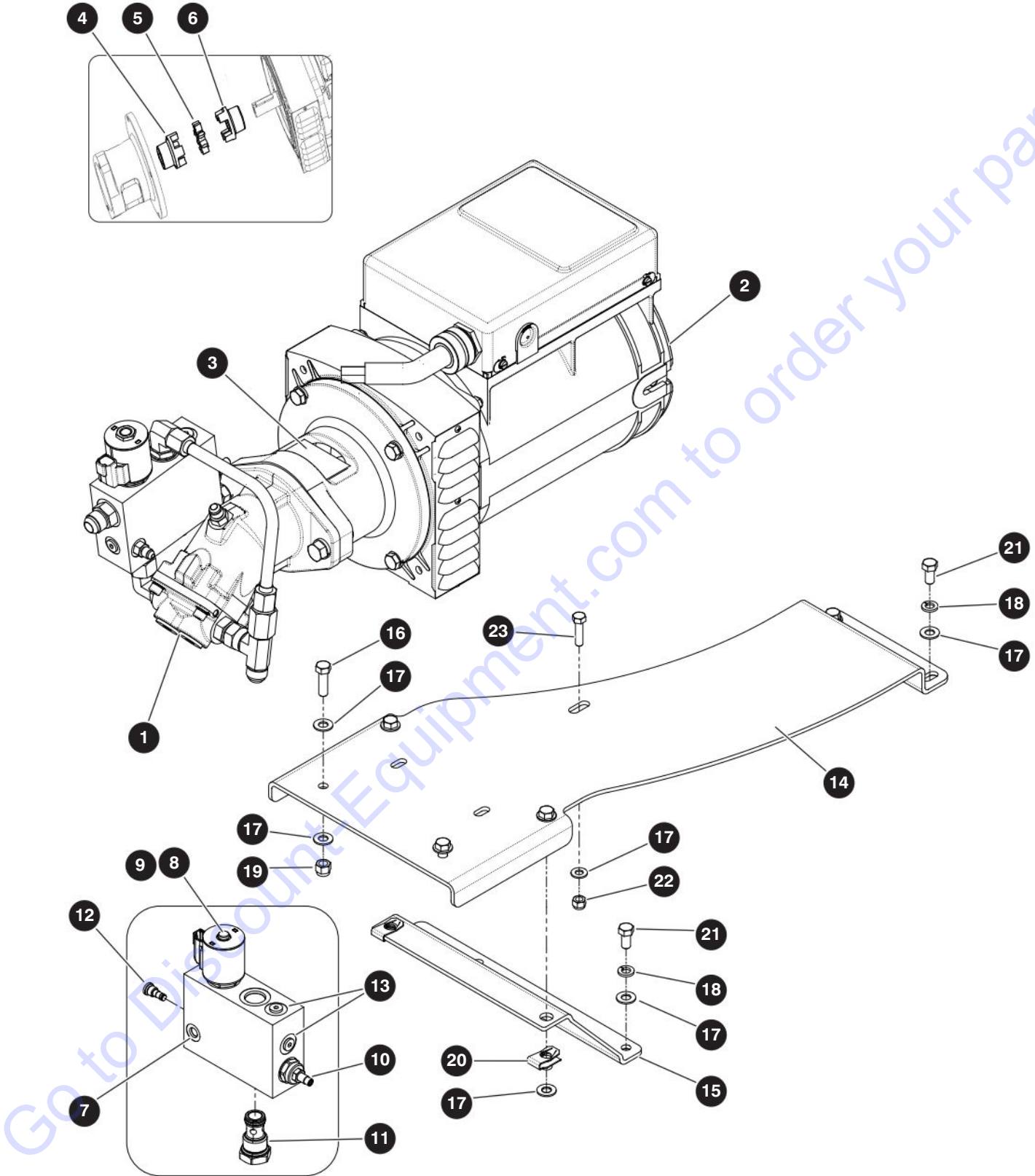
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## 9.5 Generator and Cooler Assembly - 7.5 kW

Index No.	Skyjack Part No.	Qty.	Description
-	198376	1	7.5 kW GENERATOR AND OIL COOLER ASSEMBLY (60 Hz) - <b>AS</b>
1	(Ref.)	1	<ul style="list-style-type: none"> <li>• 3.5 kW GENERATOR (For components, refer to 9.6 Generator - 7.5 kW)</li> </ul>
2	(Ref.)	1	<ul style="list-style-type: none"> <li>• OIL COOLER (For components, refer to 9.2 Oil Cooler)</li> </ul>
3	(Ref.)	1	<ul style="list-style-type: none"> <li>• GENERATOR AND OIL COOLER WIRING (For components, refer to 9.9 Generator and Oil Cooler Wiring)</li> </ul>
4	117390	1	<ul style="list-style-type: none"> <li>• LABEL, Push to reset generator</li> </ul>
5	171433	1	<ul style="list-style-type: none"> <li>• FITTING, 90° (10JICF-12JICM)</li> </ul>
6	102665	1	<ul style="list-style-type: none"> <li>• FITTING, 90° (06JICM-08ORBM)</li> </ul>
7	139153	1	<ul style="list-style-type: none"> <li>• FITTING, Straight (10JICM-12JICF)</li> </ul>
8	168652	1	<ul style="list-style-type: none"> <li>• FITTING, Straight (12JICF-16JICM)</li> </ul>
9	144116	1	<ul style="list-style-type: none"> <li>• FITTING, Run tee (12JICM-12ORBM-12JICM)</li> </ul>
10	152552	1	<ul style="list-style-type: none"> <li>• FITTING, 45° (16JICM-12ORBM)</li> </ul>

Index No.	Hose P/N	From		To	
		Description	Port	Port	Description
-	198046	<ul style="list-style-type: none"> <li>• HOSE ASSEMBLY, Generator - 7.5 kW and 12 kW</li> </ul>			
11	H2516 0051 0	Oil Cooler	OUT	IN	Hydraulic return filter
12	H5406 0034 0	Generator	Case	T7	Hydraulic tank
13	H3816 0058 0	Oil Cooler	IN	T	Main manifold
14	H5410 0021 0	Generator	P3	OUT	High pressure filter
15	H5404 0040 0	Generator	P2	LS1	Main manifold
16	H3912 0039 0	Oil Cooler	IN	OUT	Generator

# 9.6 Generator - 7.5 kW



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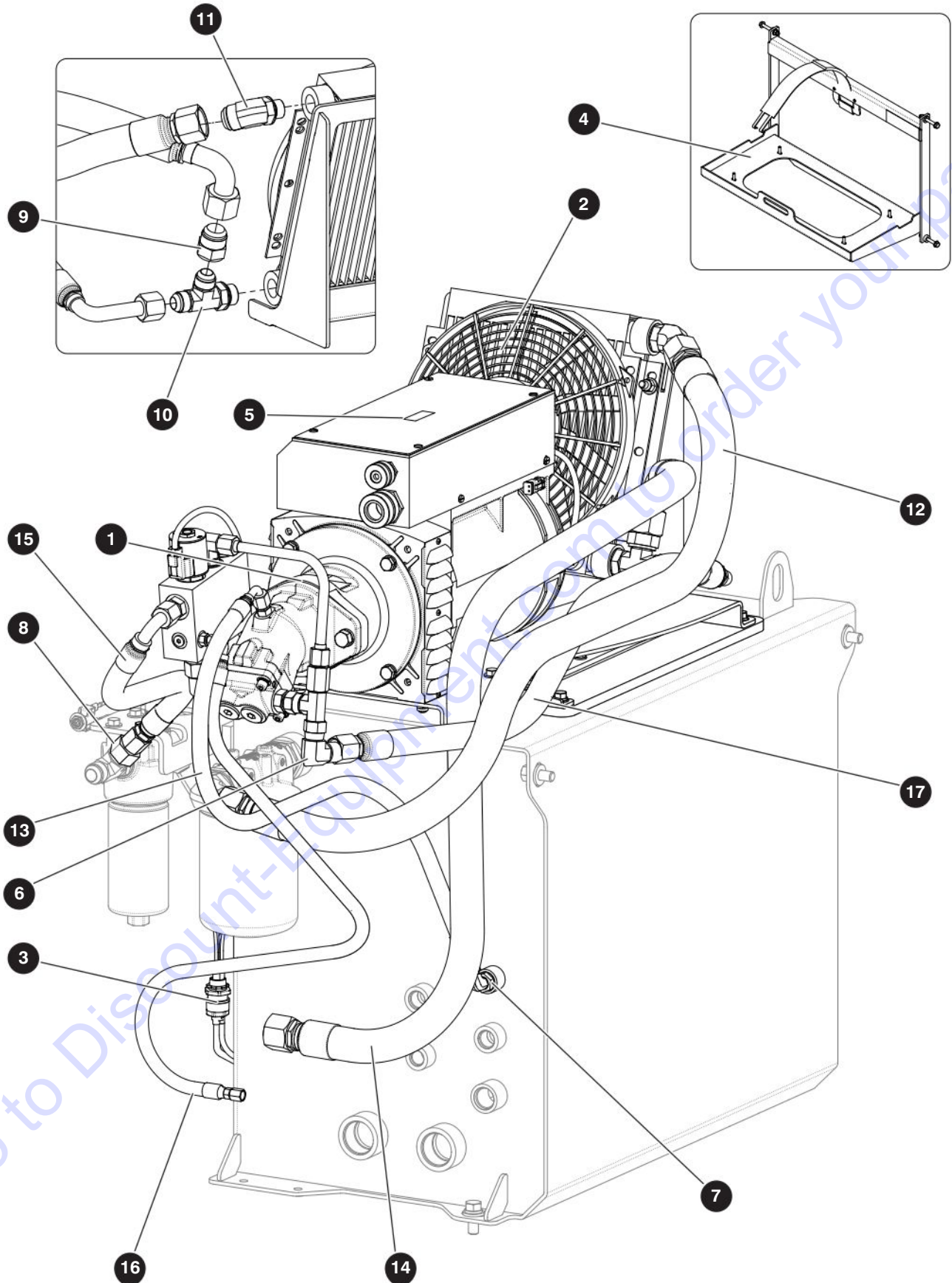
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## 9.6 Generator - 7.5 kW

Index No.	Skyjack Part No.	Qty.	Description
-	198377	1	GENERATOR ASSEMBLY - 7.5 kW - <b>AS</b>
-	209157	1	• GENERATOR, 7.5 kW
1	171438	1	• • MOTOR, Generator - 18 cc
2	213016	1	• • ALTERNATOR, Generator
3	197776	2	• • COVER, Access
4	197777	1	• • COUPLING, Motor
5	197778	1	• • INSERT, Coupling
6	197779	1	• • COUPLING, Alternator
-	197766	1	• • MANIFOLD, Generator
7	198586	1	• • • BLOCK, Manifold
8	168058	1	• • • VALVE, Solenoid
9	168057	1	• • • COIL, Solenoid
10	171450	1	• • • VALVE, Flow regulator
11	171410	1	• • • VALVE, Check (12)
12	197770	1	• • • VALVE, Check (04)
13	709963	2	• • • PLUG, Hollow hex (04 ORB)
14	198044	1	• BRACKET, Generator mounting
15	198045	1	• BRACKET, Generator mounting foot
16	101297	2	• BOLT, Hex head (0.375"-16 x 1.25", Grade 5)
17	103472	9	• WASHER, Flat (0.375")
18	103999	4	• WASHER, Lock (0.375")
19	104606	2	• NUT, Lock (0.375"-16 gr 5)
20	159294	2	• NUT, Speed clip (0.375"-16)
21	101632	4	• BOLT, Hex head (0.375"-16 x 0.75", Grade 5)
22	144260	3	• NUT, Hex lock (M10-1.25 cl 8)
23	103850	3	• BOLT, Hex head (0.375"-16 x 0.75" gr 5)

## 9.7 Generator and Cooler Assembly - 12 kW



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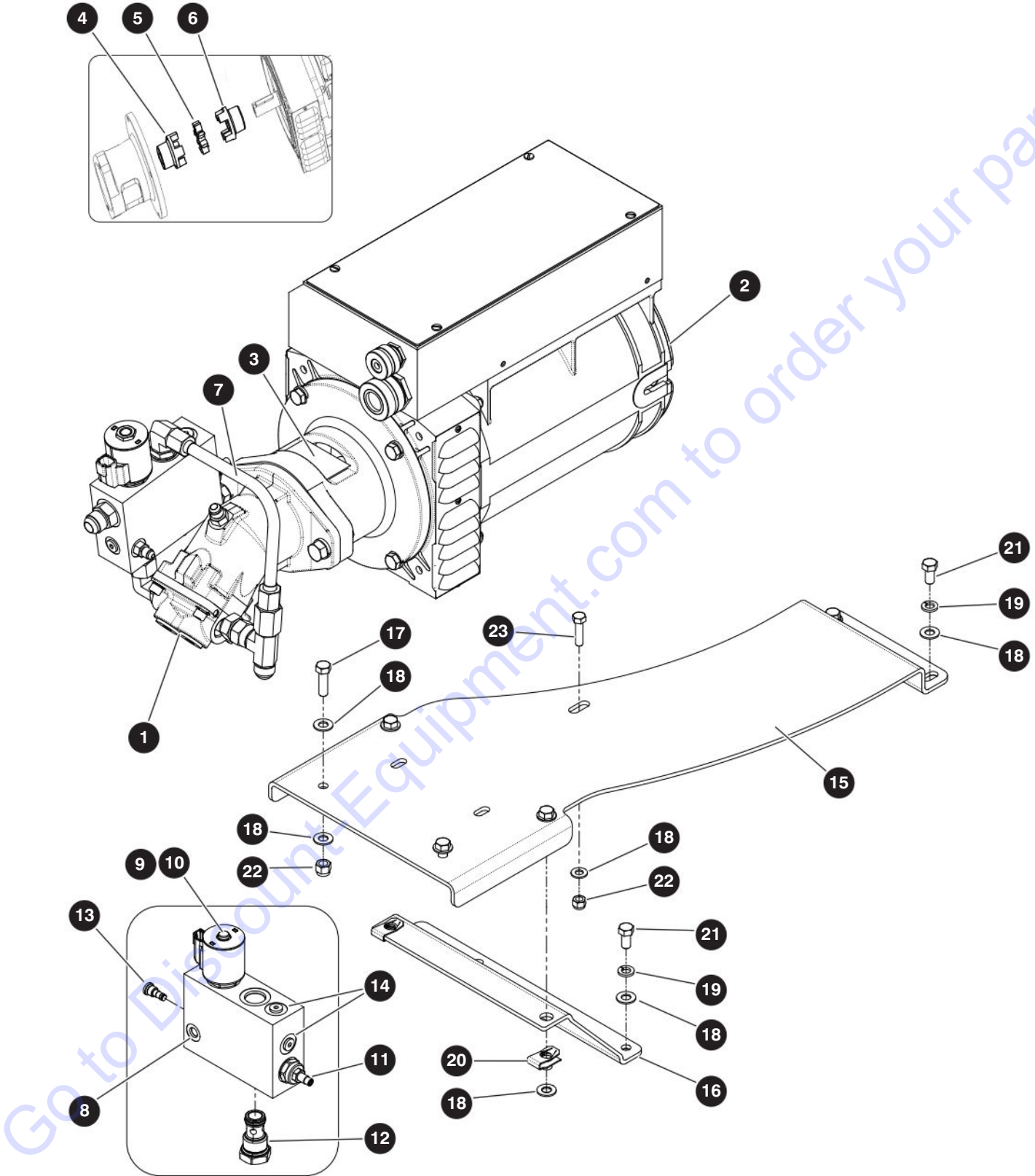


## 9.7 Generator and Cooler Assembly - 12 kW

Index No.	Skyjack Part No.	Qty.	Description
-	198042	1	12 kW GENERATOR AND OIL COOLER ASSEMBLY (60 Hz) - <b>ANSI/CSA</b>
1	(Ref.)	1	<ul style="list-style-type: none"> <li>• 12 kW GENERATOR (For components, refer to 9.8 Generator - 12 kW)</li> </ul>
2	(Ref.)	1	<ul style="list-style-type: none"> <li>• OIL COOLER (For components, refer to 9.2 Oil Cooler)</li> </ul>
3	(Ref.)	1	<ul style="list-style-type: none"> <li>• GENERATOR AND OIL COOLER WIRING (For components, refer to 9.9 Generator and Oil Cooler Wiring)</li> </ul>
4	(Ref.)	1	<ul style="list-style-type: none"> <li>• WELDER MOUNTING ASSEMBLY (For components, refer to 9.10 Welder)</li> </ul>
5	117390	1	<ul style="list-style-type: none"> <li>• LABEL, Push to reset generator</li> </ul>
6	171433	1	<ul style="list-style-type: none"> <li>• FITTING, 90° (10JICF-12JICM)</li> </ul>
7	102665	1	<ul style="list-style-type: none"> <li>• FITTING, 90° (06JICM-08ORBM)</li> </ul>
8	139153	1	<ul style="list-style-type: none"> <li>• FITTING, Straight (10JICM-12JICF)</li> </ul>
9	168652	1	<ul style="list-style-type: none"> <li>• FITTING, Straight (12JICF-16JICM)</li> </ul>
10	144116	1	<ul style="list-style-type: none"> <li>• FITTING, Run tee (12JICM-12ORBM-12JICM)</li> </ul>
11	152552	1	<ul style="list-style-type: none"> <li>• FITTING, 45° (16JICM-12ORBM)</li> </ul>

Index No.	Hose P/N	From		To	
		Description	Port	Port	Description
-	198046	<ul style="list-style-type: none"> <li>• HOSE ASSEMBLY, Generator - 7.5 kW and 12 kW</li> </ul>			
12	H2516 0051 0	Oil Cooler	OUT	IN	Hydraulic return filter
13	H5406 0034 0	Generator	Case	T7	Hydraulic tank
14	H3816 0058 0	Oil Cooler	IN	T	Main manifold
15	H5410 0021 0	Generator	P3	OUT	High pressure filter
16	H5404 0040 0	Generator	P2	LS1	Main manifold
17	H3912 00139 0	Oil Cooler	IN	OUT	Generator

# 9.8 Generator - 12 kW



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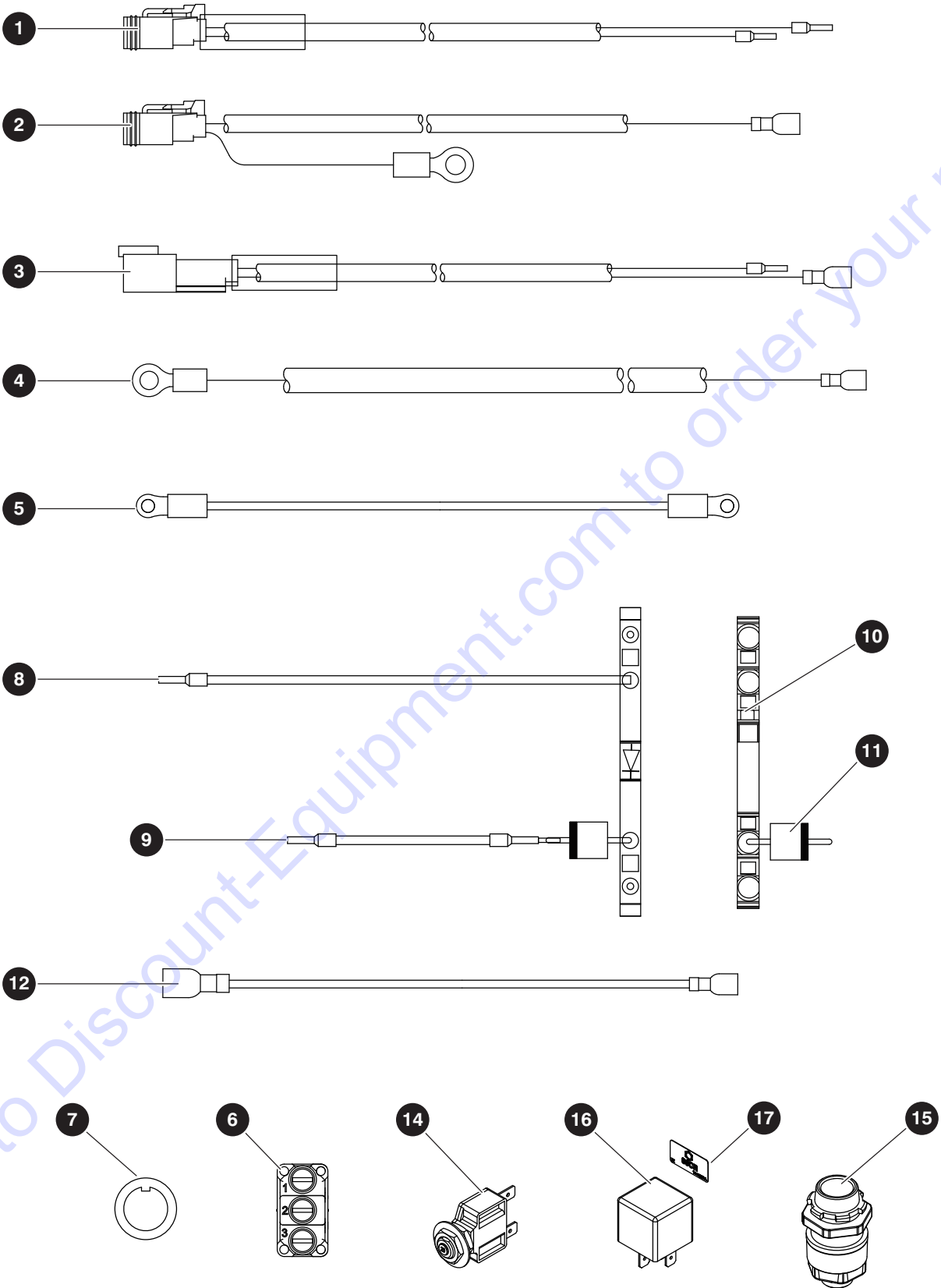
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## 9.8 Generator - 12 kW

Index No.	Skyjack Part No.	Qty.	Description
-	198043	1	GENERATOR ASSEMBLY - 12 kW - <b>ANSI/CSA</b>
-	171427	1	• GENERATOR, 12 kW
1	171438	1	• • MOTOR, Generator - 18 cc
2	197774	1	• • ALTERNATOR, Generator
3	197778	2	• • COVER, Mount
4	197777	1	• • COUPLING, Motor
5	197780	1	• • INSERT, Coupling
6	197779	1	• • COUPLING, Alternator
7	221391	1	• • TUBE, Hydraulic
-	197766	1	• • MANIFOLD, Generator
8	198586	1	• • • BLOCK, Manifold
9	168058	1	• • • VALVE, Solenoid
10	168057	1	• • • COIL, Solenoid
11	171450	1	• • • VALVE, Flow regulator
12	171410	1	• • • VALVE, Check (12)
13	197770	1	• • • VALVE, Check (04)
14	709963	2	• • • PLUG, Hollow hex (04 ORB)
15	198044	1	• BRACKET, Generator mounting
16	198045	1	• BRACKET, Generator mounting foot
17	101297	2	• BOLT, Hex head (0.375"-16 x 1.25", Grade 5)
18	103472	9	• WASHER, Flat (0.375")
19	103999	4	• WASHER, Lock (0.375")
20	159294	2	• NUT, Speed clip (0.375"-16)
21	101632	4	• BOLT, Hex head (0.375"-16 x 0.75", Grade 5)
22	144260	3	• NUT, Hex lock (M10-1.25 cl 8)
23	103850	3	• BOLT, Hex head (0.375"-16 x 0.75" gr 5)

## 9.9 Generator and Oil Cooler Wiring



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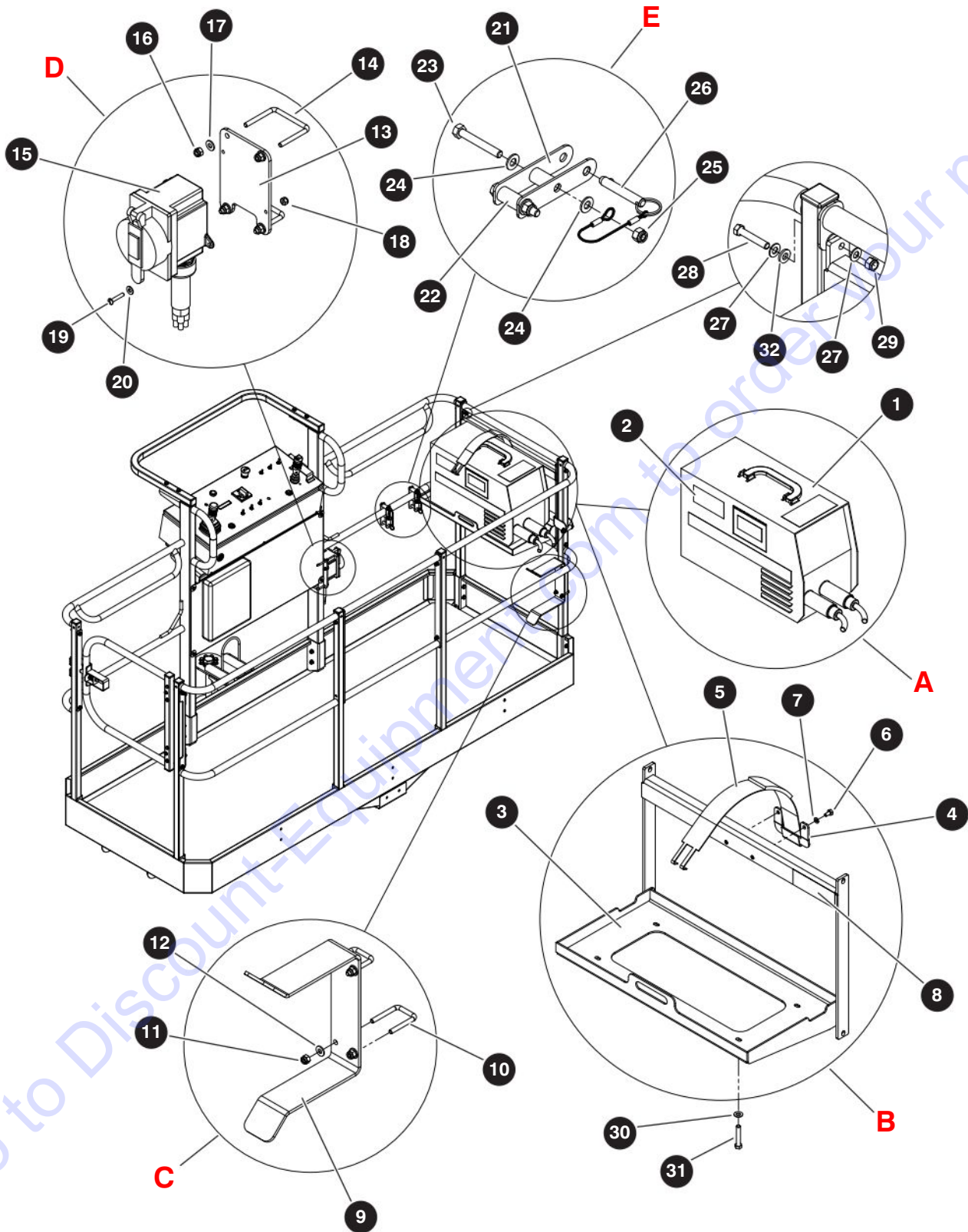
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## 9.9 Generator and Oil Cooler Wiring

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	198380	1	GENERATOR & OIL COOLER WIRING - <b>3.5 kW &amp; 7.5 kW generators</b>
<b>B</b>	198384	1	GENERATOR & OIL COOLER WIRING - <b>12 kW generator</b>
<b>C</b>	166354	1	OIL COOLER ONLY WIRING - No Generator
<b>D</b>	198383	1	GENERATOR WIRING - Platform control box
<b>E</b>	166385	1	GENERATOR WIRING - Base control box
1	171441	1	• HARNESS, Generator manifold, <b>A, B</b>
2	148484	1	• HARNESS, Cooler fan, <b>A, B, C</b>
3	148485	1	• HARNESS, Cooler temperature sensor, <b>A, B, C</b>
4	144074	1	• HARNESS, Oil cooler power, <b>A, B, C</b>
-	198382	1	• GENERATOR WIRE ASSEMBLY (Platform control console), <b>D</b>
5	198381	1	• • WIRE, Generator (04)
6	115747	1	• • SWITCH, Toggle
7	144016	1	• • SEAL, Panel bushing (Toggle switch)
-	159937	1	• GENERATOR WIRE ASSEMBLY (Base control console), <b>E</b>
8	144085	1	• • WIRE, Generator (85)
9	159939	1	• • WIRE, Generator (D85-2)
10	137940	2	• • BLOCK, Terminal (4 COND. - through),
11	102921	1	• • DIODE
12	212869	1	• OIL COOLER RELAY WIRE, <b>A, B, C</b>
13	167126	1	• WELDER POWER CABLE (1380") (not shown), <b>B</b>
14	117326	1	• BREAKER, Circuit 20 amp, <b>A, B, C</b>
15	103041	2	• CONNECTOR, Strain relief, <b>A, B, C</b>
16	127131	1	• RELAY, 12V 40amp, <b>A, B, C</b>
17	144193	1	• LABEL, Cooler relay 86CR, <b>A, B, C</b>

# 9.10 Welder



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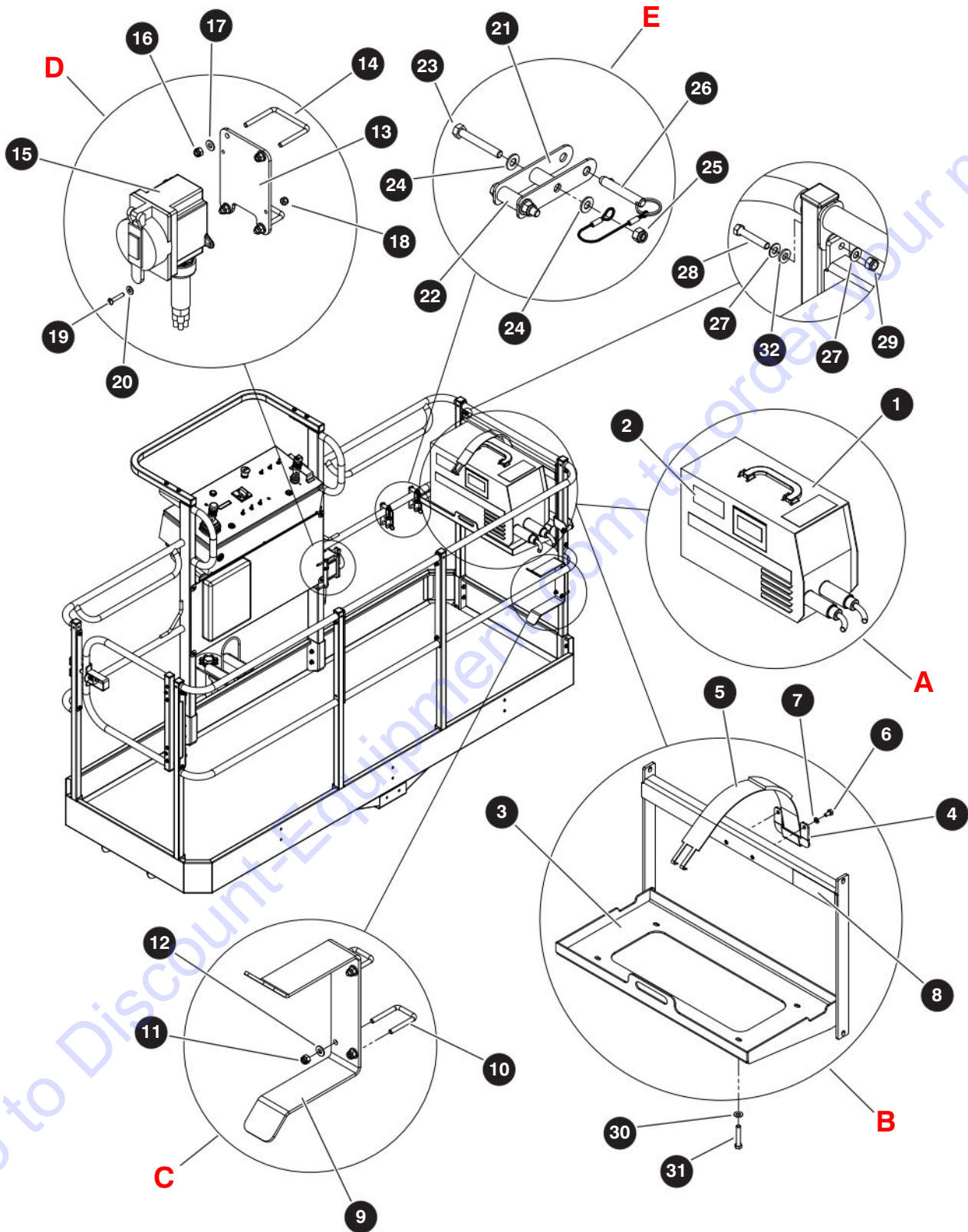
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## 9.10 Welder

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b> 1	148383	1	WELDER ASSEMBLY - <b>ANSI/CSA</b>
	138811	1	• WELDER (275A)
	138813	1	• CABLE, Electrode (14')
	144376	1	• • ELECTRODE HOLDER (400A)
	144573	168"	• • CABLE
	138814	1	• CABLE, Work (14')
	144377	1	• • GROUND CLAMP (400A)
	144573	168"	• • CABLE
	144374	1	• PLUG, Locking (50A / 250V / 3P)
	144603	2	• CLAMP, Cushioned loop (0.875" diameter)
2	147112	1	• LABEL, Welder weight (90 lbs)
-	159917	1	MOUNTING ASSEMBLY, 12kW Welder
<b>B</b> 3 4 5 6 7 8	159948	1	• WELDER TRAY ASSEMBLY
	159955	1	• • TRAY, Welder
	137814	1	• • PLATE, Strap
	103020	1	• • STRAPS (pair)
	103855	2	• • BOLT, Hex head (1/4"-20 x 0.50", Grade 5)
	104000	2	• • WASHER, Lock (1/4")
	147112	1	• • LABEL, Welder weight (90 lbs)
	<b>C</b> 9 10 11 12	144218	1
144220		1	• • BRACKET, Welding cables
144219		2	• • U BOLT, Welder bracket
115649		4	• • NUT, Hex lock (1/4"-20 Grade 5, nylon)
103995		4	• • WASHER, Flat (1/4")
<b>D</b> 13 14 15 16 17 18 19 20		144221	1
	144222	1	• • PLATE, Receptacle mounting
	144223	2	• • U BOLT, Receptacle mounting
	141614	1	• • ELECTRICAL COMPONENTS ASSEMBLY
	139835	1	• • • FD BOX, 50A Receptacle
	139832	1	• • • RECEPTACLE, Single locking
	139836	1	• • • COVER, Weather resistant
	144367	1	• • • STRAIN RELIEF, 1-18" straight
	115649	4	• • NUT, Hex lock (1/4"-20 Grade 5, nylon)
	103995	4	• • WASHER, Flat (1/4")
	300450	2	• • NUT, Hex lock (#10-32 Grade 5, nylon)
	105621	2	• • SCREW, Round head machine (#10-32 x 1")
	104694	2	• • WASHER, Flat (#10)

# 9.10 Welder



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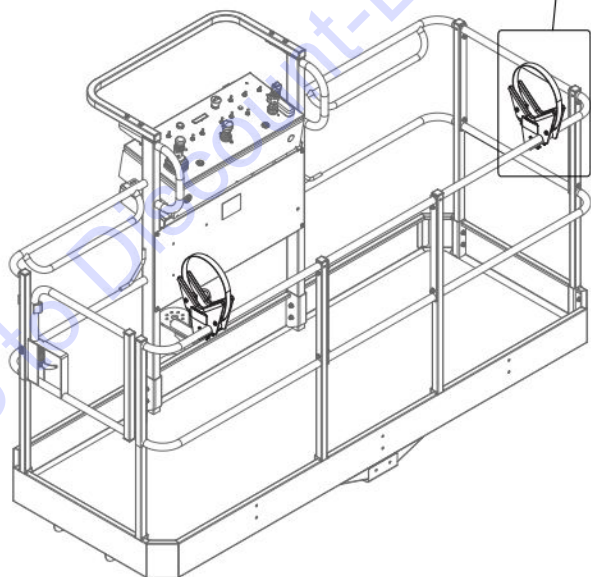
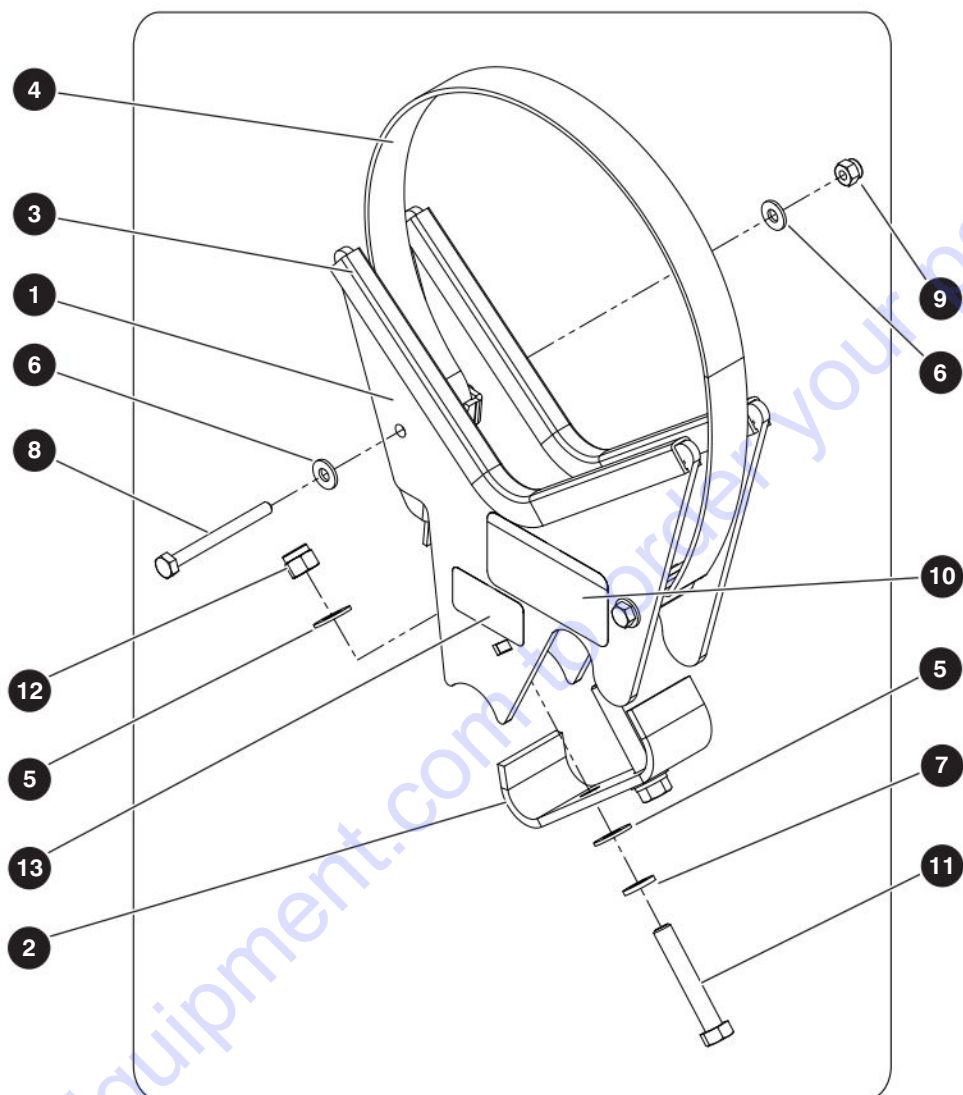
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## 9.10 Welder

Index No.	Skyjack Part No.	Qty.	Description
<b>E</b>	168530	2	• HANGER ASSEMBLY
21	169160	2	• • BRACKET, Welder cable
22	159947	2	• • SPACER, Welder tray
23	103866	2	• • BOLT, Hex head (5/16"-18 x 2 1/4 Grade 5)
24	103996	4	• • WASHER, Flat (5/16")
25	103984	2	• • NUT, Hex lock nylon lock (5/16"-18 Grade 5)
26	124548	1	• • PIN, Quick release
27	103996	8	• WASHER, Flat (5/16")
28	103884	4	• BOLT, Hex head (5/16"-18 x 2.50", Grade 5)
29	103984	4	• NUT, Hex head nylon lock (5/16"-18, Grade 5)
30	103995	4	• WASHER, Flat (1/4")
31	103857	4	• BOLT, Hex head (1/4"-20 x 1.00" Grade 5)
32	159960	2	• SPACER, Nylon (0.403" ID x 0.75" OD, x 0.312" long) (drop bar entrance)
	168336	2	• SPACER, Nylon (0.394" ID x 0.75" OD, x 0.125" long)

## 9.11 Pipe Rack



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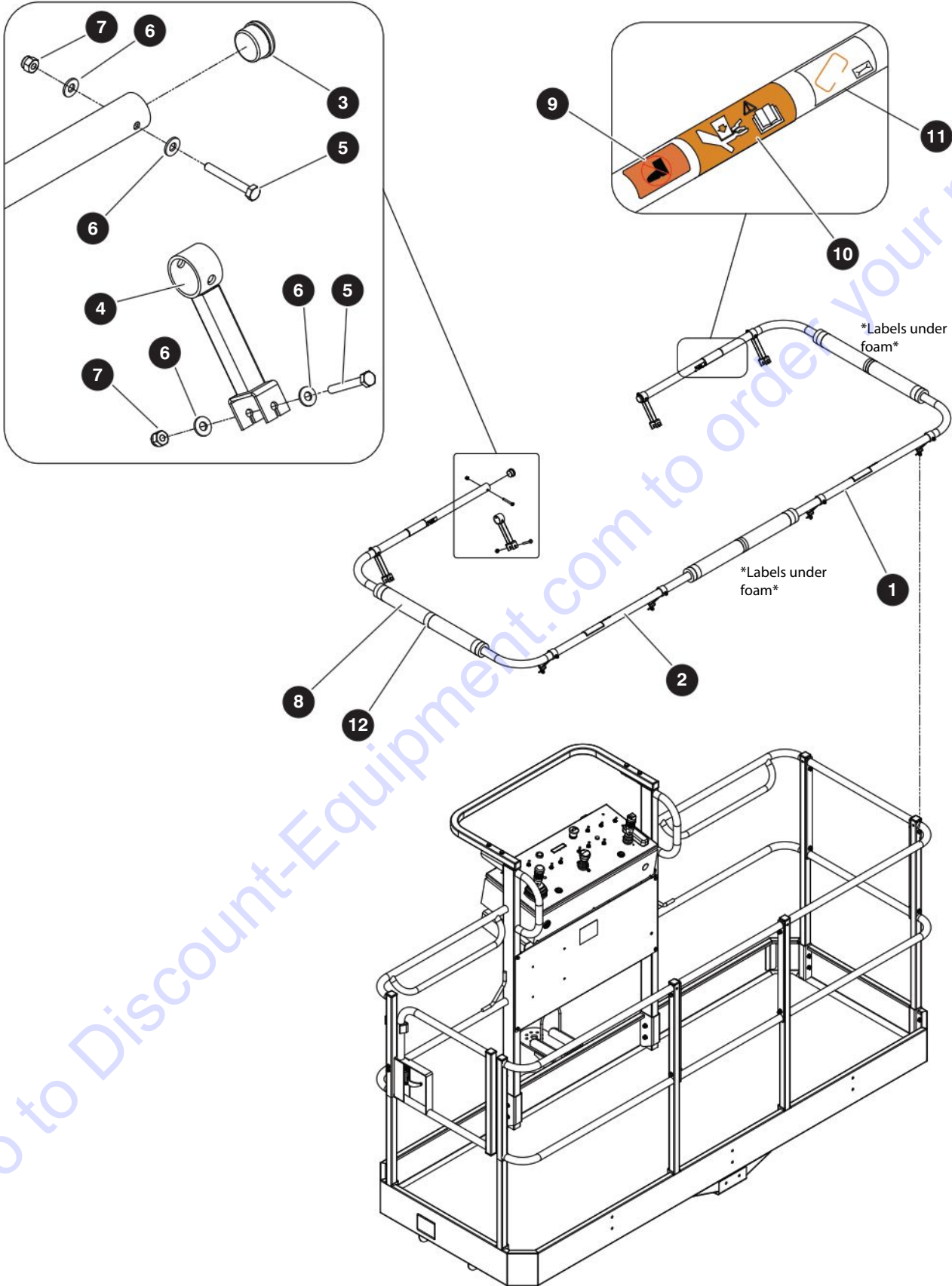
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**SKYJACK**

## 9.11 Pipe Rack

Index No.	Skyjack Part No.	Qty.	Description
-	162052	1	PIPE RACK ASSEMBLY
-	162051	1	• PIPE RACK
-	159901	2	• • PIPE RACK, Bracket assembly
1	159902	1	• • • WELDMENT, Pipe rack bracket
2	159904	1	• • • PLATE, Pipe rack bottom
3	117398	2	• • • TRIM, Protective
4	144500	1	• • • STRAP, Pipe rack
5	103472	4	• • • WASHER, Flat (3/8")
6	103995	4	• • • WASHER, Flat (1/4")
7	103999	2	• • • WASHER, Lock (3/8")
8	144501	2	• • • BOLT, Hex head (1/4"-20 x 2 3/4" Grade 5)
9	115649	2	• • • NUT, Hex lock (1/4"-20 Grade 5, nylon)
10	144748	2	• • • LABEL, Pipe rack capacity
11	103873	2	• • • BOLT, Hex head (3/8"-16 x 2 1/2" Grade 5)
12	104606	2	• • • NUT, Hex lock (3/8"-16 Grade 5, nylon)
13	144748	2	• • • LABEL, Capacity (Pipe rack)
14	162725	1	• INSTRUCTIONS, Pipe rack (not shown)

# 9.12 External Railing



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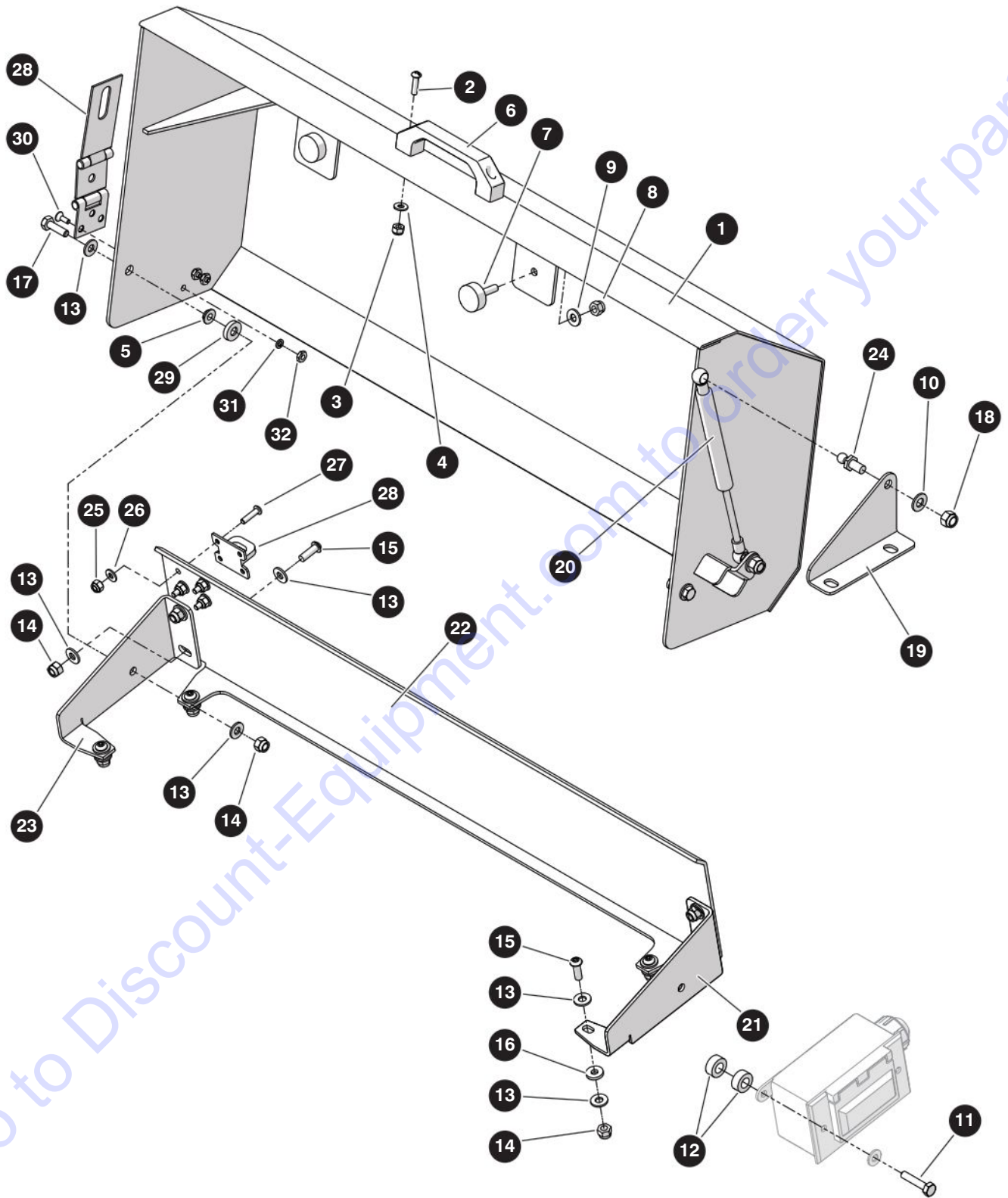
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## 9.12 External Railing

Index No.	Skyjack Part No.	Qty.	Description
-	163408	1	EXTERNAL RAILING FIELD KIT - <i>for the 8' platform only</i>
-	163409	1	<ul style="list-style-type: none"> <li>• EXTERNAL RAILING ASSEMBLY</li> </ul>
1	144706	1	<ul style="list-style-type: none"> <li>• • TUBE, External railing (right)</li> </ul>
2	144712	1	<ul style="list-style-type: none"> <li>• • TUBE, External railing (left)</li> </ul>
3	144048	2	<ul style="list-style-type: none"> <li>• • PLUG, Round end</li> </ul>
4	144747	8	<ul style="list-style-type: none"> <li>• • WELDMENT, External railing stand-off</li> </ul>
5	103861	16	<ul style="list-style-type: none"> <li>• • BOLT, Hex head (0.25"-20 x 2" Grade 5)</li> </ul>
6	103995	32	<ul style="list-style-type: none"> <li>• • WASHER, Flat (0.25")</li> </ul>
7	115649	16	<ul style="list-style-type: none"> <li>• • NUT, Hex head nylon lock (0.25"-20 Grade 5)</li> </ul>
8	104183	6'	<ul style="list-style-type: none"> <li>• • PAD, Entry railing</li> </ul>
9	115543	6	<ul style="list-style-type: none"> <li>• • LABEL, Warning no step</li> </ul>
10	137988	6	<ul style="list-style-type: none"> <li>• • LABEL, Hazard crush/pinch point</li> </ul>
11	171237	6	<ul style="list-style-type: none"> <li>• • LABEL, External railing weight</li> </ul>
12	119803	1	<ul style="list-style-type: none"> <li>• • LABEL, Caution tape (108' roll)</li> </ul>
13	162030	1	<ul style="list-style-type: none"> <li>• INSTRUCTION, External railing installation (not shown)</li> </ul>

# 9.13 Control Box Cover



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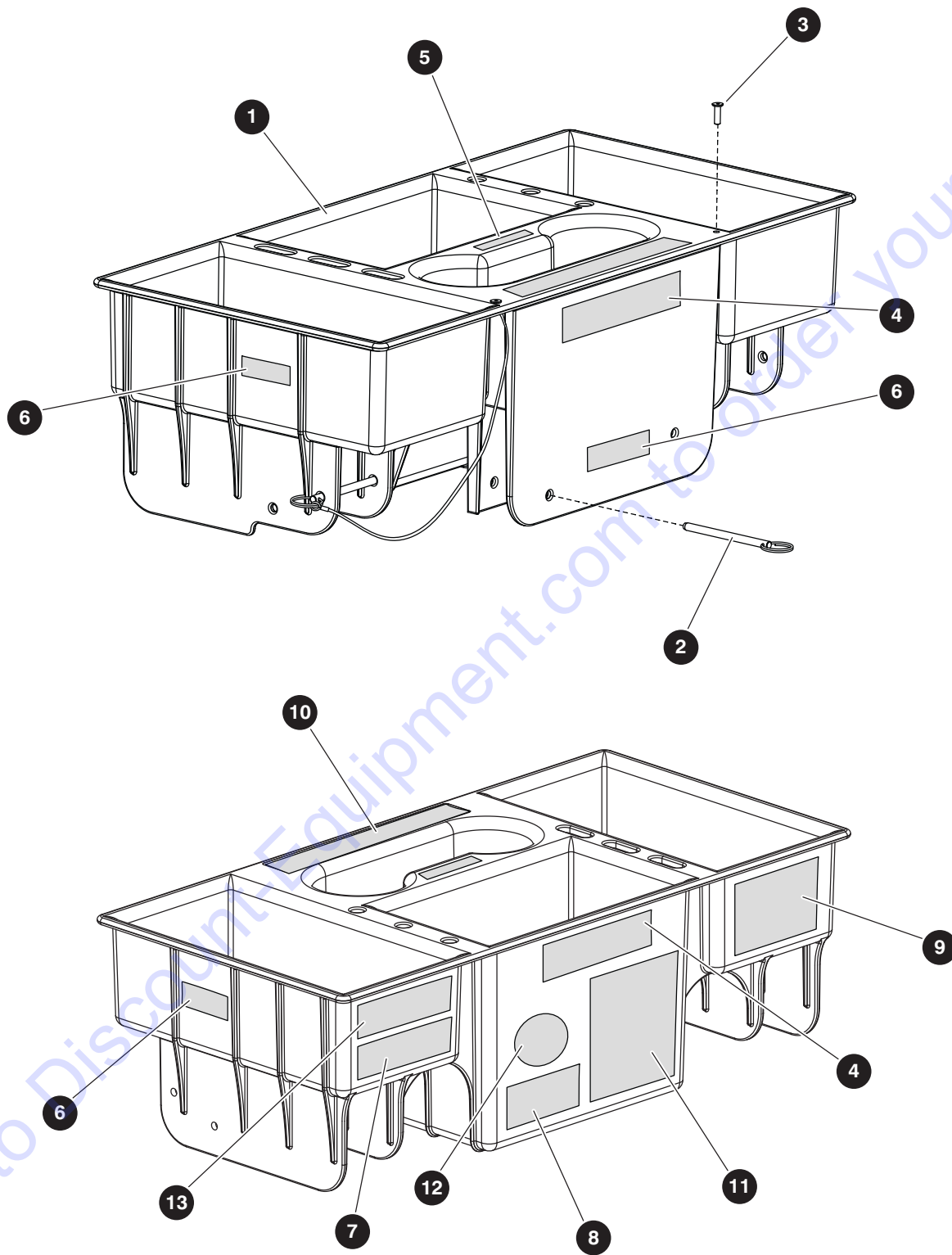
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## 9.13 Control Box Cover

Index No.	Skyjack Part No.	Qty.	Description
-	216918	1	CONTROL BOX COVER
-	216917	1	• COVER ASSEMBLY, Control box
1	216919	1	• • COVER, Control box
2	104698	2	• • SCREW, Round machine (#10-32 x 1")
3	300450	2	• • NUT, Hex lock (#10-32 Grade 5, nylon)
4	104694	2	• • WASHER, Flat (#10)
5	154305	2	• • BUSHING, Flanged (0.25" ID x 0.1875")
6	137653	1	• • HANDLE, Pull
7	144015	2	• • MOUNT, Anti-vibration
8	115649	2	• • NUT, Hex lock (0.25"-20 Grade 5, nylon)
9	103995	2	• • WASHER, Flat (0.25")
10	103996	2	• WASHER, Flat (0.3125")
11	103858	2	• BOLT, Hex head (0.25"-20 x 1.25" Grade 5)
12	159960	4	• SPACER, (0.75" OD)
13	103995	16	• WASHER, Flat (0.25")
14	115649	10	• NUT, Hex lock (0.25"-20 Grade 5, nylon)
15	139168	8	• SCREW, Button head cap (0.25"-20 x 0.75")
16	159956	4	• WASHER, Rubber (0.25")
17	103891	2	• BOLT, Hex head (0.25"-20 x 0.875" Grade 5)
18	103984	2	• NUT, Hex lock (0.3125"-18 Grade 5, nylon)
19	154323	1	• BRACKET, Gas spring
20	162101	1	• GAS SPRING, Control box cover
21	162048	1	• PLATE, Right side cover
22	216921	1	• PLATE, Back cover
23	162049	1	• PLATE, Left side cover
24	162123	2	• STUD, Ball (10 mm x 0.54")
25	300450	4	• NUT, Hex head nylon lock (10-32, Grade 5)
26	104694	4	• WASHER, Flat (10)
27	104698	4	• SCREW, Round head machine (10-32 x 0.75")
28	216675	1	• HASP, Double hinge (3.25")
29	168336	3	• SPACER, Nylon (0.394" ID x 0.75" OD x 0.125" long)
30	124031	3	• SCREW, Flat head (10-32 x 0.50")
31	104185	3	• WASHER, Lock (10)
32	104003	3	• NUT, Hex (10-32)
33	162032	1	• INSTRUCTION, Control box cover installation (not shown)

## 9.14 Tool Caddy



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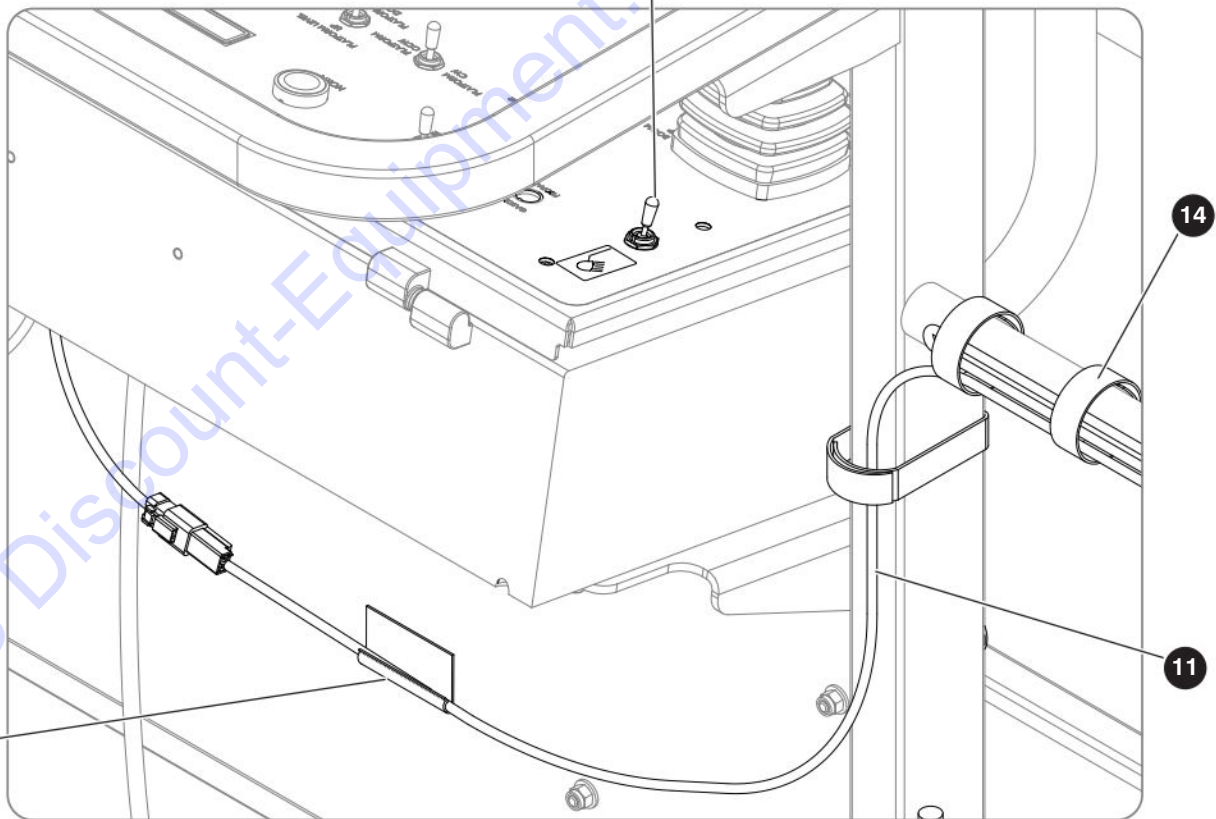
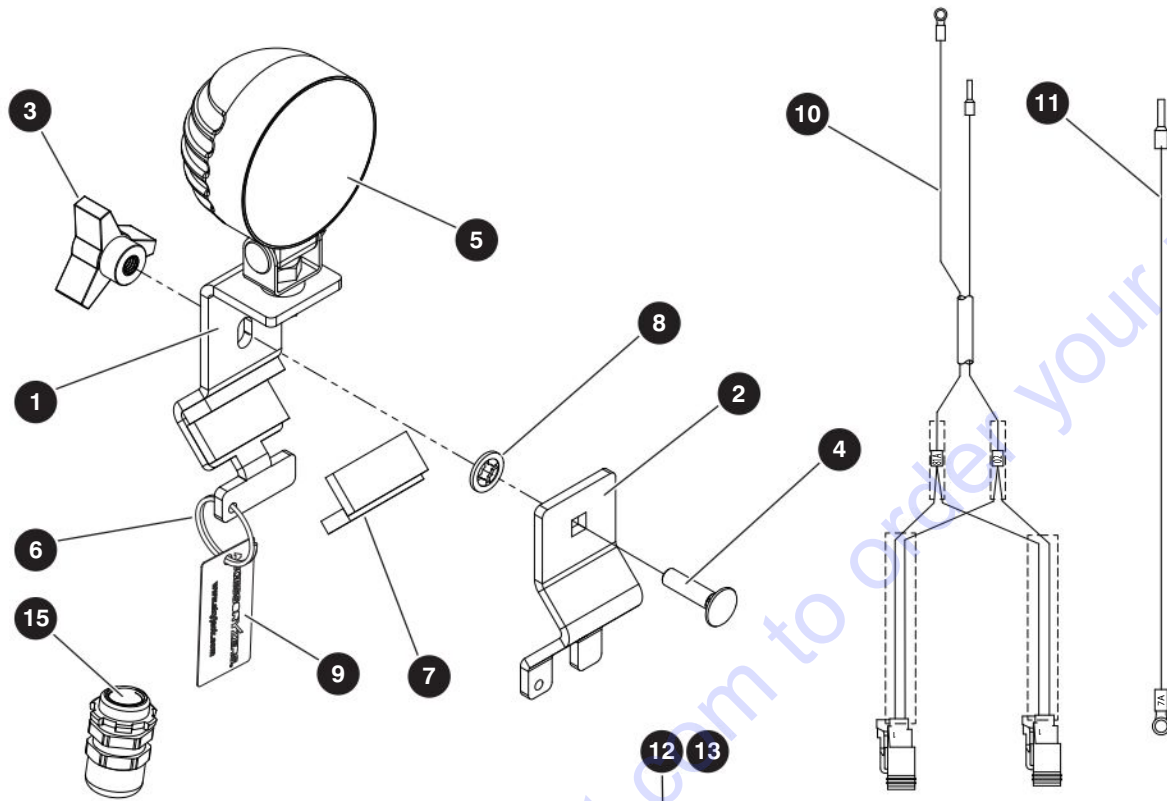
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## 9.14 Tool Caddy

Index No.	Skyjack Part No.	Qty.	Description
-	211271	1	TOOL CADDY KIT
-	204334	1	• TOOL CADDY ASSEMBLY
1	198945	1	• • TOOL CADDY TRAY, Plastic (Std)
2	198965	2	• • PIN, Quick release 1/4x3.2 LG with Lanyard
3	116161	2	• • RIVET, Pop (0.1875" x 0.565")
4	172293	2	• • LABEL, Skyjack logo, 5" white
5	172294	1	• • LABEL, Skyjack logo, 3" white
6	168421	3	• • LABEL, Lock pin in place
7	172245	1	• • LABEL, Tool caddy weight
8	172246	1	• • LABEL, Tool caddy pin location
9	172247	1	• • LABEL, Tool caddy location
10	172292	1	• • LABEL, Accessoryzers, 8" white
11	172298	1	• • LABEL, Tool caddy models serial numbers
12	172299	1	• • LABEL, Do not block exit/entrance
13	172297	1	• • LABEL, Drive slowly when tool caddy is installed
14	204306	1	• INSTRUCTIONS, Tool caddy installation (not shown)

## 9.15 Work Lights



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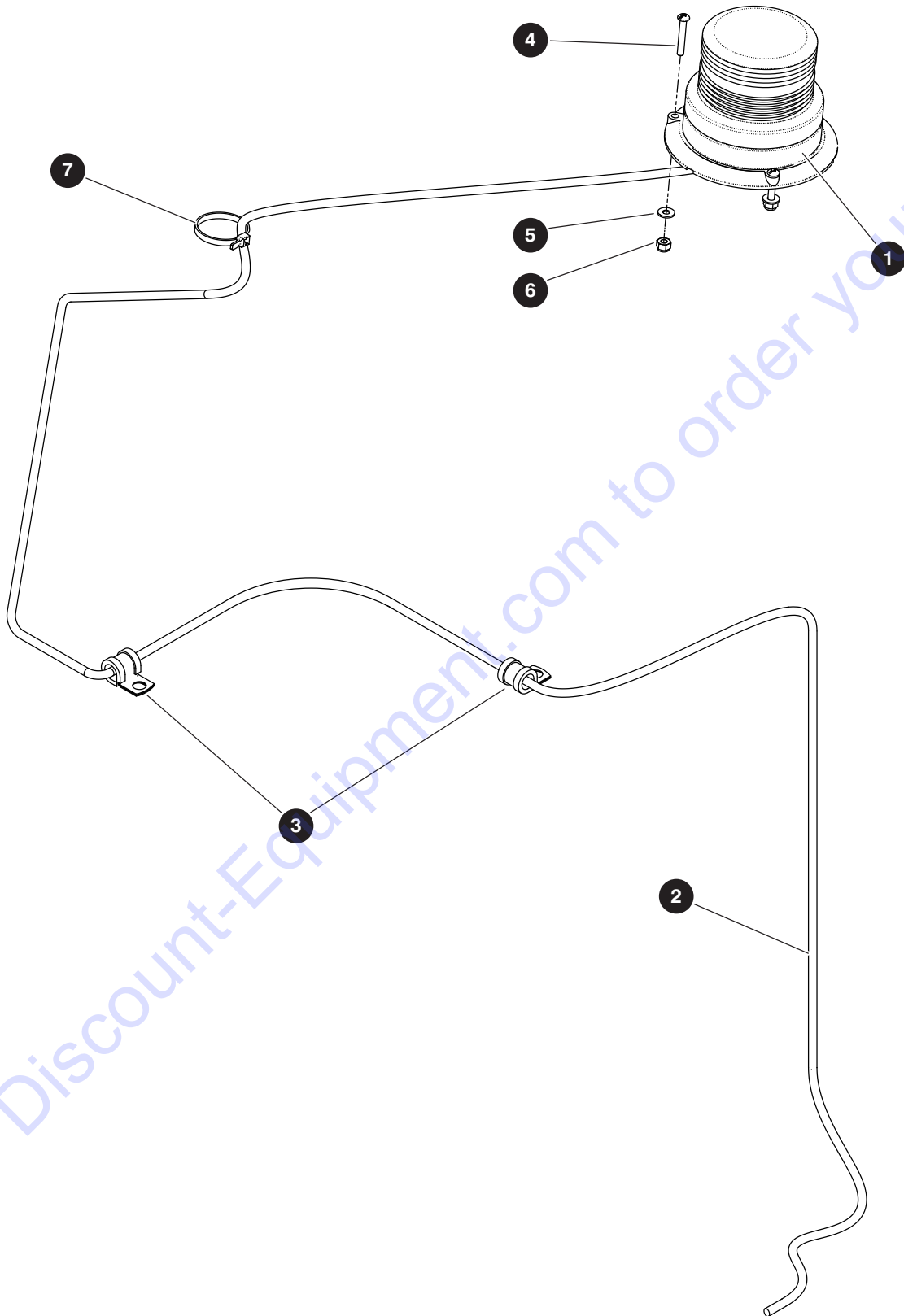
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## 9.15 Work Lights

Index No.	Skyjack Part No.	Qty.	Description
-	216056	1	PLATFORM WORK LIGHTS
-	216039	1	• WORK LIGHTS ASSEMBLY
-	208789	1	• • WORK LIGHTS ASSEMBLY
1	207672	2	• • • BRACKET, Inner - work light
2	207669	2	• • • BRACKET, Outer - work light
3	169005	2	• • • KNOB, Three arm (0.3125" threaded insert)
4	106049	2	• • • BOLT, Carriage (0.3125"-18 x 1.25" gr 5)
5	171888	2	• • • LAMP, Work
6	160320	2	• • • RING, Retaining
7	103628	14"	• • • RUBBER, Self seal
8	208790	2	• • • WASHER, Self-retaining
9	208935	2	• • • TAG, Accessoryzers
-	216040	1	• • WORK LIGHT ELECTRICAL ASSEMBLY
10	168634	1	• • • WIRE ASSEMBLY, Work light (toggle to e-stop and harness)
11	168637	2	• • • HARNESS, Work light
12	115574	1	• • • SWITCH, Toggle (1NT1-2)
13	144016	1	• • • SEAL, Toggle switch
14	149599	10	• • • TIE, Cable - velcro
15	103036	1	• • • CONNECTOR, Strain relief
16	108791	4	• • • CLIP, Cord - adhesive
17	168636	1	• • • WIRING DIAGRAM, Work light (not shown)
18	208829	1	• INSTALLATION INSTRUCTION, Work lights (not shown)

## 9.16 Flashing Light



M198375AD

229037ADA

**268**

SJ85 AJ

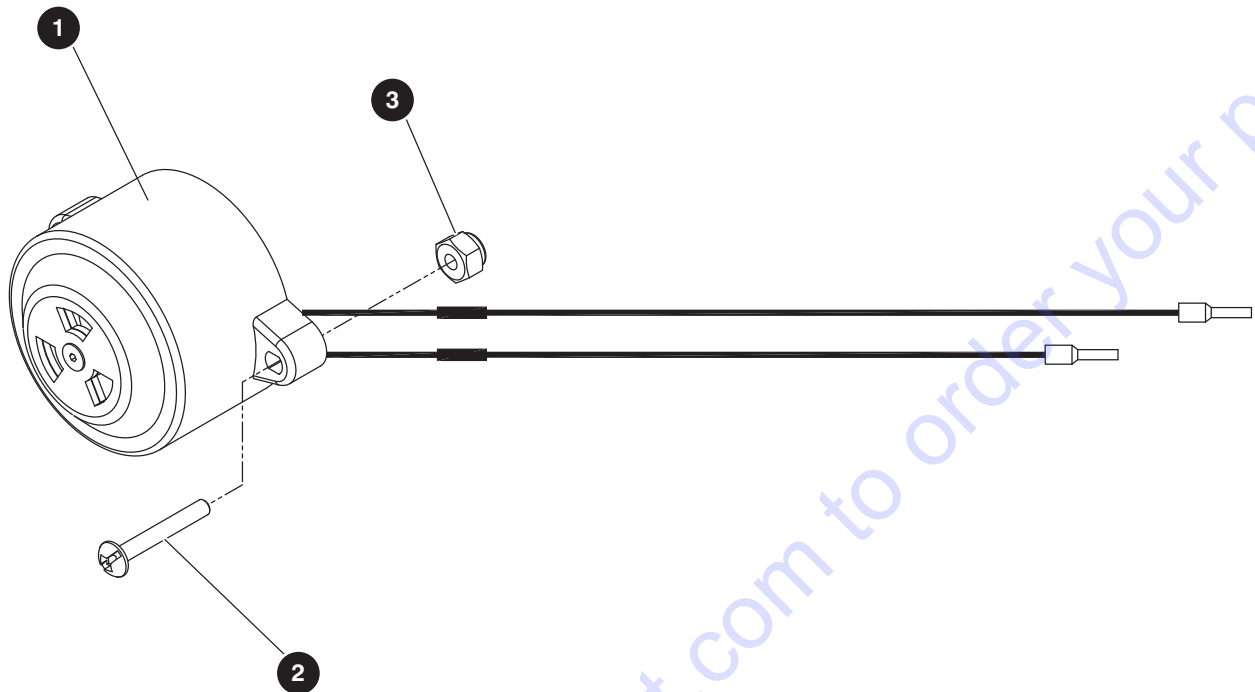
**SKYJACK**

# 9.16 Flashing Light

Index No.	Skyjack Part No.	Qty.	Description
-	212439	1	FLASHING LIGHT FIELD KIT
-	198375	1	<ul style="list-style-type: none"> <li>• FLASHING LIGHT ASSEMBLY</li> </ul>
1	144078	1	<ul style="list-style-type: none"> <li>• • LIGHT, Flashing amber</li> </ul>
2	152585	1	<ul style="list-style-type: none"> <li>• • HARNESS, Flashing light</li> </ul>
3	149495	2	<ul style="list-style-type: none"> <li>• • CLAMP, Tube (0.50")</li> </ul>
4	122498	3	<ul style="list-style-type: none"> <li>• • SCREW, Round head machine (10-32 x 1.25")</li> </ul>
5	104694	3	<ul style="list-style-type: none"> <li>• • WASHER, Flat (#10)</li> </ul>
6	300450	3	<ul style="list-style-type: none"> <li>• • NUT, Lock (10-32 gr 5 nylon)</li> </ul>
7	102891	1	<ul style="list-style-type: none"> <li>• • WRAP, Tie</li> </ul>
8	198375	1	<ul style="list-style-type: none"> <li>• INSTRUCTION, Flashing light installation (not shown)</li> </ul>

Go to Discount-Equipment.com to order your parts

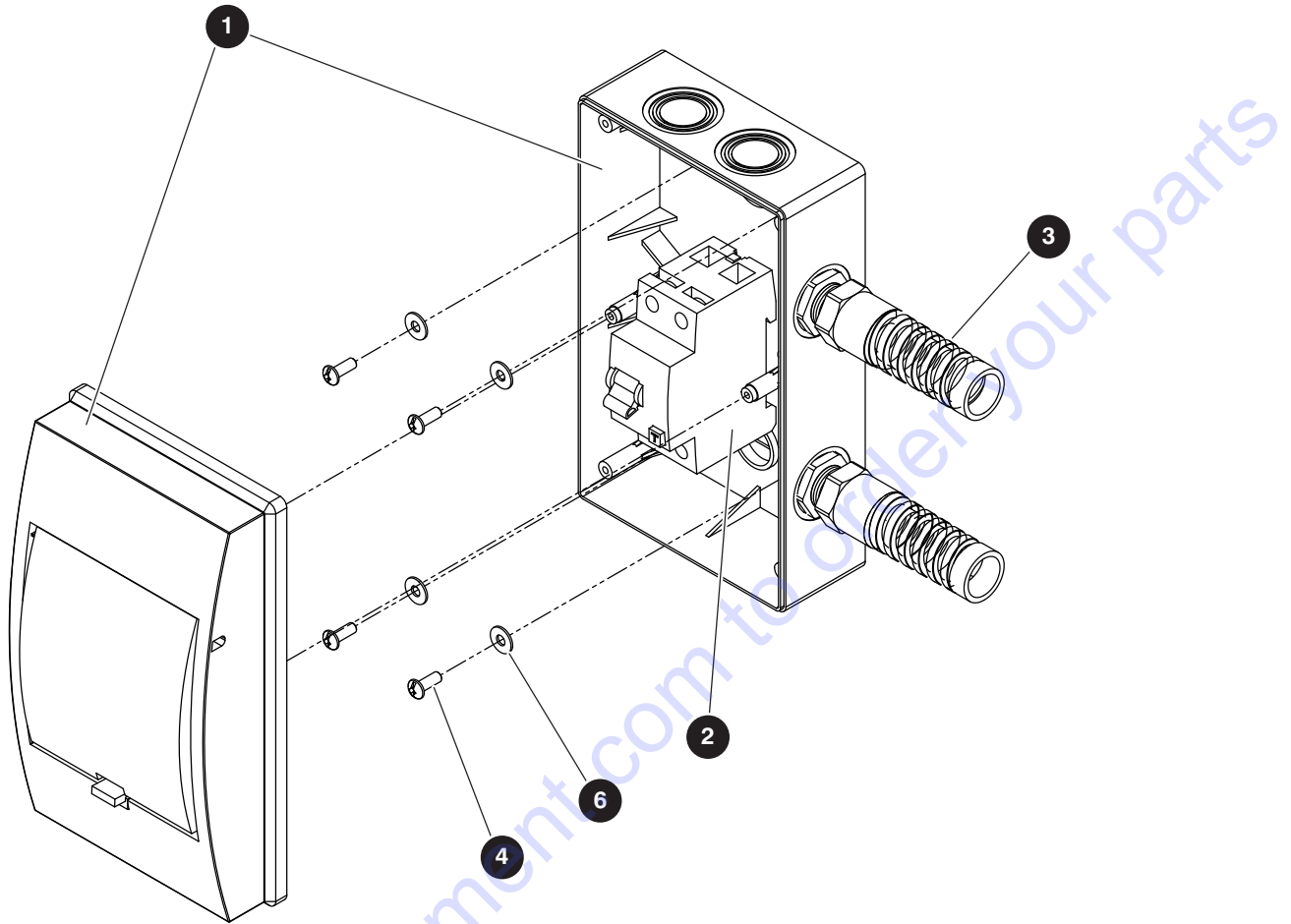
## 9.17 All Motion Alarm



M152362AA

Index No.	Skyjack Part No.	Qty.	Description
-	194434	1	ALL MOTION ALARM FIELD KIT
-	152361	1	• ALL MOTION ALARM ASSEMBLY
1	152362	1	• • ALARM, All motion with lead wires
2	112248	2	• • SCREW, Round head machine (8-32 x 1.00")
3	138765	2	• • NUT, Hex head nylon lock (8-32 gr 5)
4	170950	1	• INSTRUCTION, All motion alarm installation (not shown)

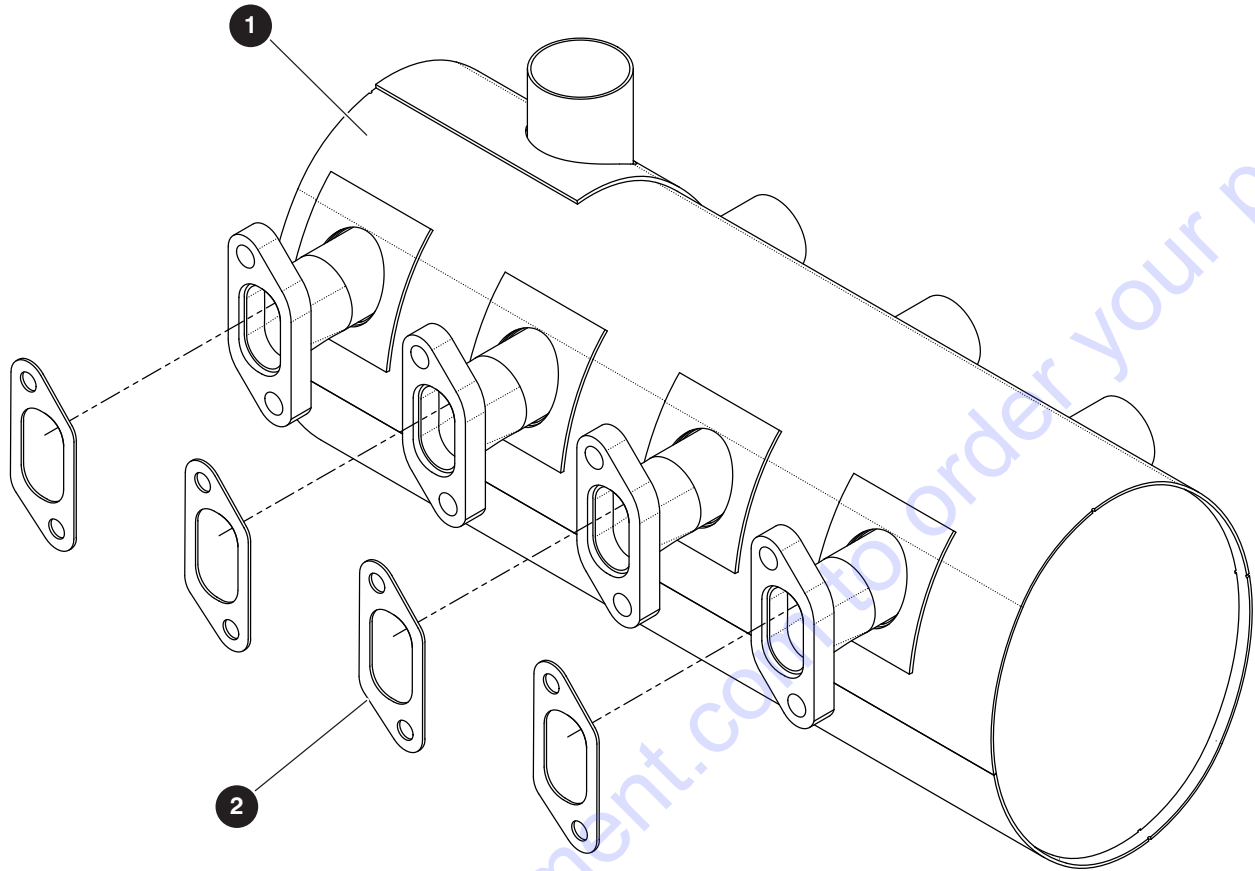
## 9.18 Residual Current Device (RCD)



M196064AB

Index No.	Skyjack Part No.	Qty.	Description
-	221811	1	RESIDUAL CURRENT DEVICE (RCD)
1	196027	1	• ENCLOSURE, RCD
2	168379	1	• RCCB, Type A - Doepke DFS 2A
3	158212	2	• RELIEF, Strain (PG-13.5)
4	103962	4	• SCREW, Round head machine (10-32 x 0.50")
5	117542	168"	• CABTIRE, 14/3 (not shown)
6	117952	4	• WASHER, Seal (0.203" ID x 0.50" OD x 0.40")

## 9.19 Diesel Scrubber

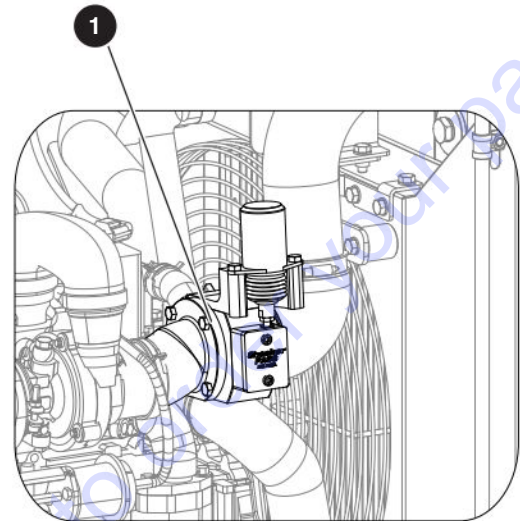
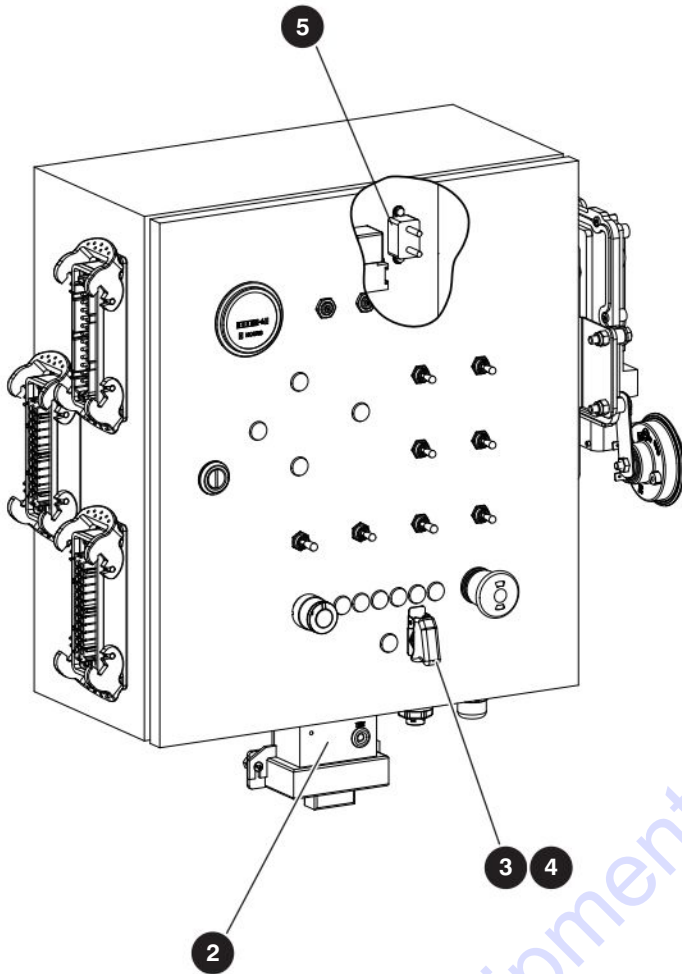


M148418AB

Index No.	Skyjack Part No.	Qty.	Description
-	148418	1	DIESEL SCRUBBER - <b>Deutz D2011 engine</b>
1	148419	1	• MUFFLER, Diesel scrubber
2	144299	4	• GASKET, Catalytic muffler



## 9.20 Positive Air Shut-off Option

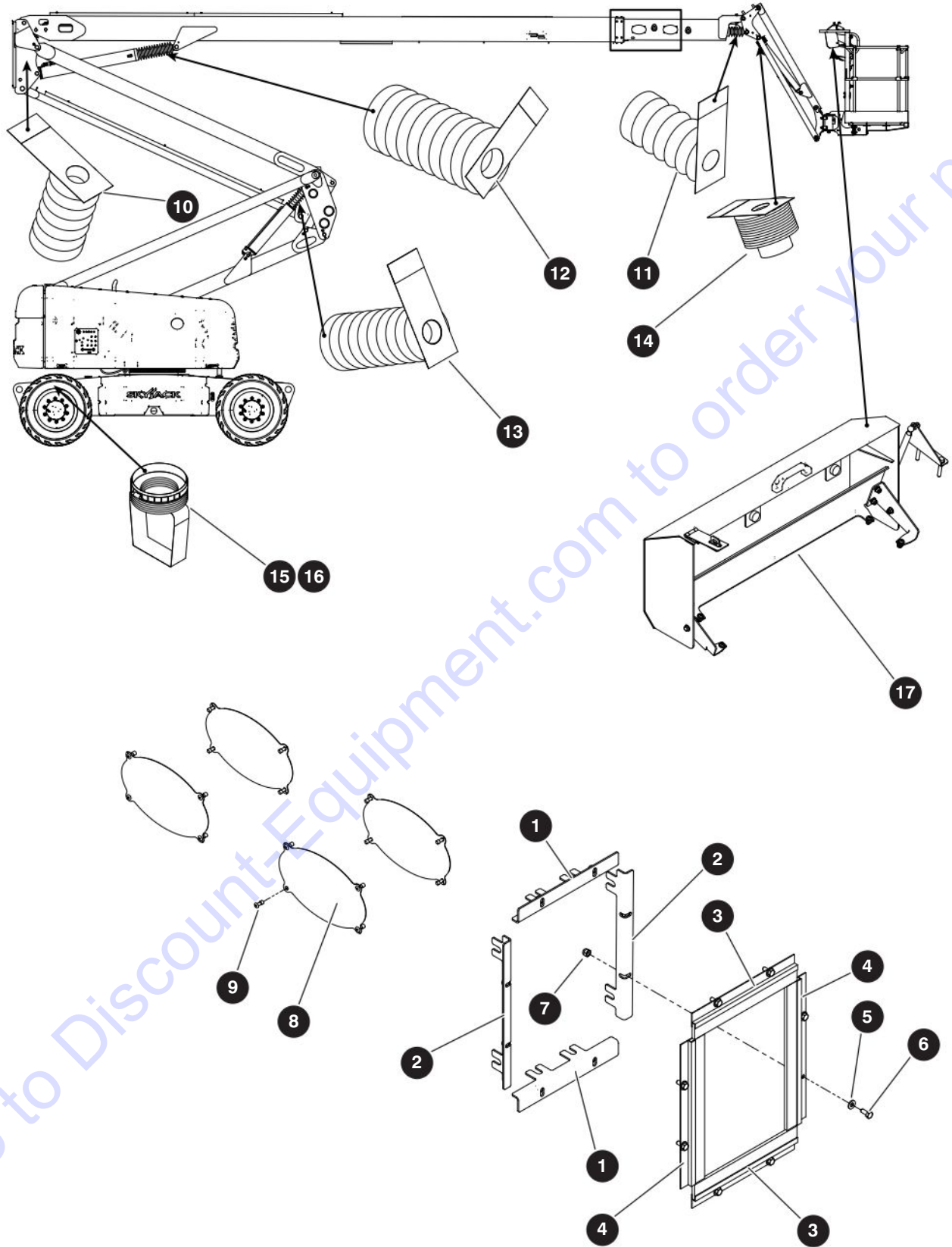


On the engine

M194146AA-85AJ

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	216007	1	POSITIVE AIR SHUT-OFF OPTION - <b>Deutz TD2.9L Engine</b>
<b>B</b>	195327	1	POSITIVE AIR SHUT-OFF OPTION - <b>Deutz D2011 Engine</b>
1	216006	1	• SHOCKER PASS KIT, <b>A</b>
	195326	1	• SHOCKER PASS KIT, <b>B</b>
2	171821	1	• • LIMITER, Automatic rev - R5
3	171826	1	• • COVER, Toggle safety (red)
4	115574	1	• • SWITCH, Toggle (1NT1-2)
5	171899	1	• • CIRCUIT BREAKER, Auto reset (20 amp)

## 9.21 Hostile Environment



M198306AA

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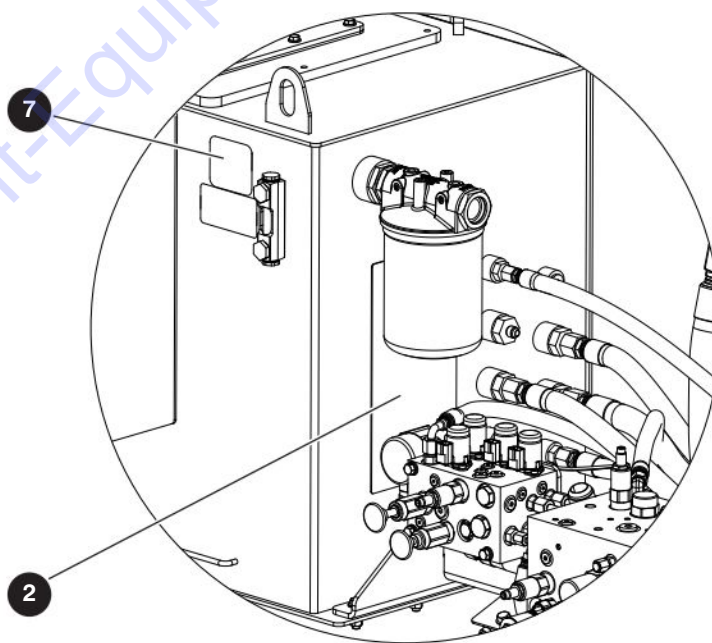
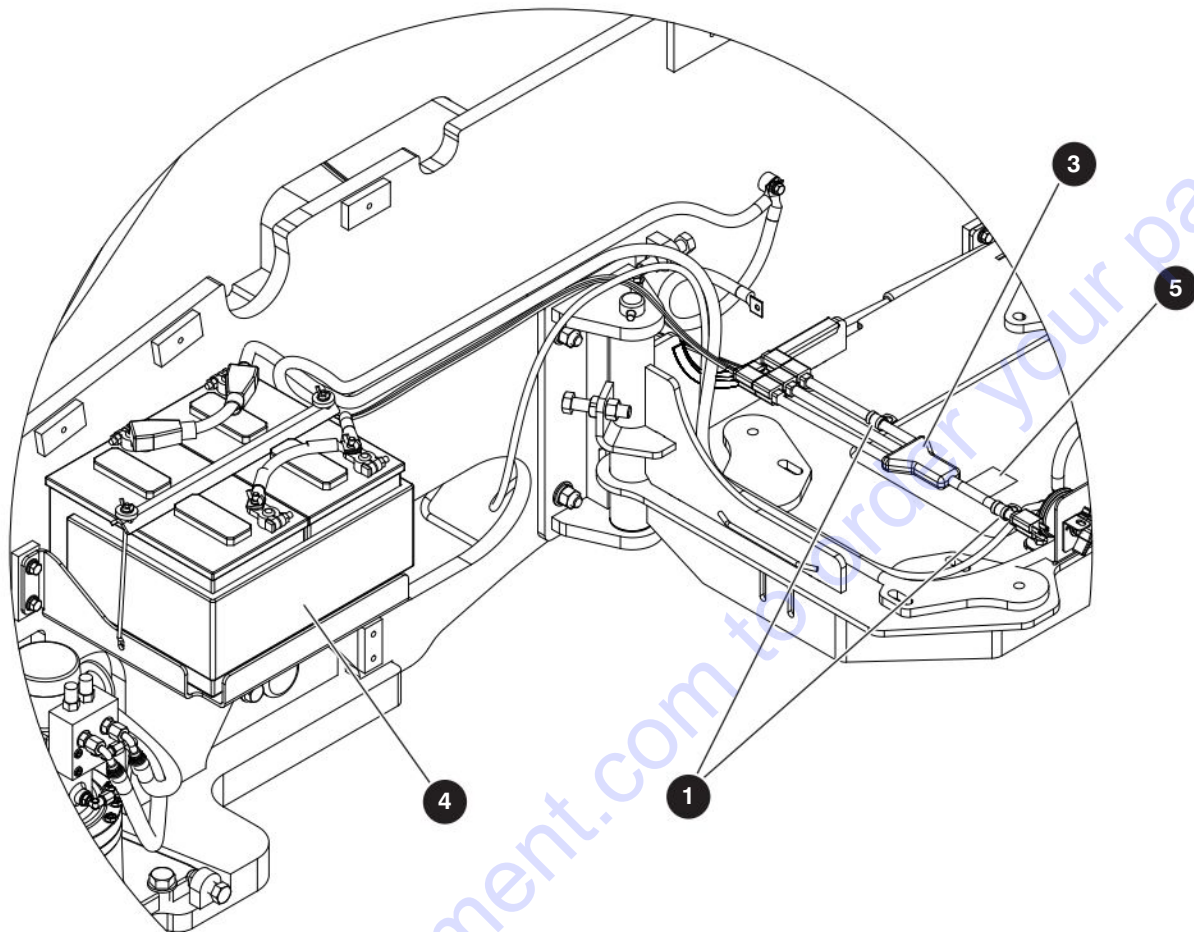
SJ85 AJ

SKYJACK

## 9.21 Hostile Environment

Index No.	Skyjack Part No.	Qty.	Description
-	212441	1	HOSTILE ENVIRONMENT FIELD KIT
-	198306	1	• HOSTILE ENVIRONMENT ASSEMBLY
1	198241	2	• • BRACKET, Wiper - top/bottom
2	198242	2	• • BRACKET, Wiper - side
3	198243	2	• • BRUSH, Wiper - top/bottom
4	198244	2	• • BRUSH, Wiper - side
5	103995	8	• • WASHER, Flat (0.25")
6	103892	8	• • BOLT, Hex head (0.25"-20 x 0.625" gr 5)
7	115649	8	• • NUT, Lock (0.25"-20 gr 5 nylon)
8	154274	30	• • COVER, Fly boom
9	157759	120	• • RIVET, Pop (0.188" x 0.565")
10	198245	1	• • BELLOW, Master cylinder
11	198246	1	• • BELLOW, Slave Cylinder
12	198247	1	• • BELLOW, Lift cylinder
13	198248	2	• • BELLOW, Riser Cylinder
14	167157	1	• • BELLOW, Jib cylinder
15	159932	2	• • BELLOW, Oscillation
16	159933	2	• • CLAMP, Gear (2.5" - 5.5")
17	159855	1	• • CONTROL BOX COVER ASSEMBLY (For components, refer to 9.13 Control Box Cover)
18	213014	1	• INSTRUCTION, Hostile environment installation (not shown)

## 9.22 Cold Start Package



M171979AA

229037ADA

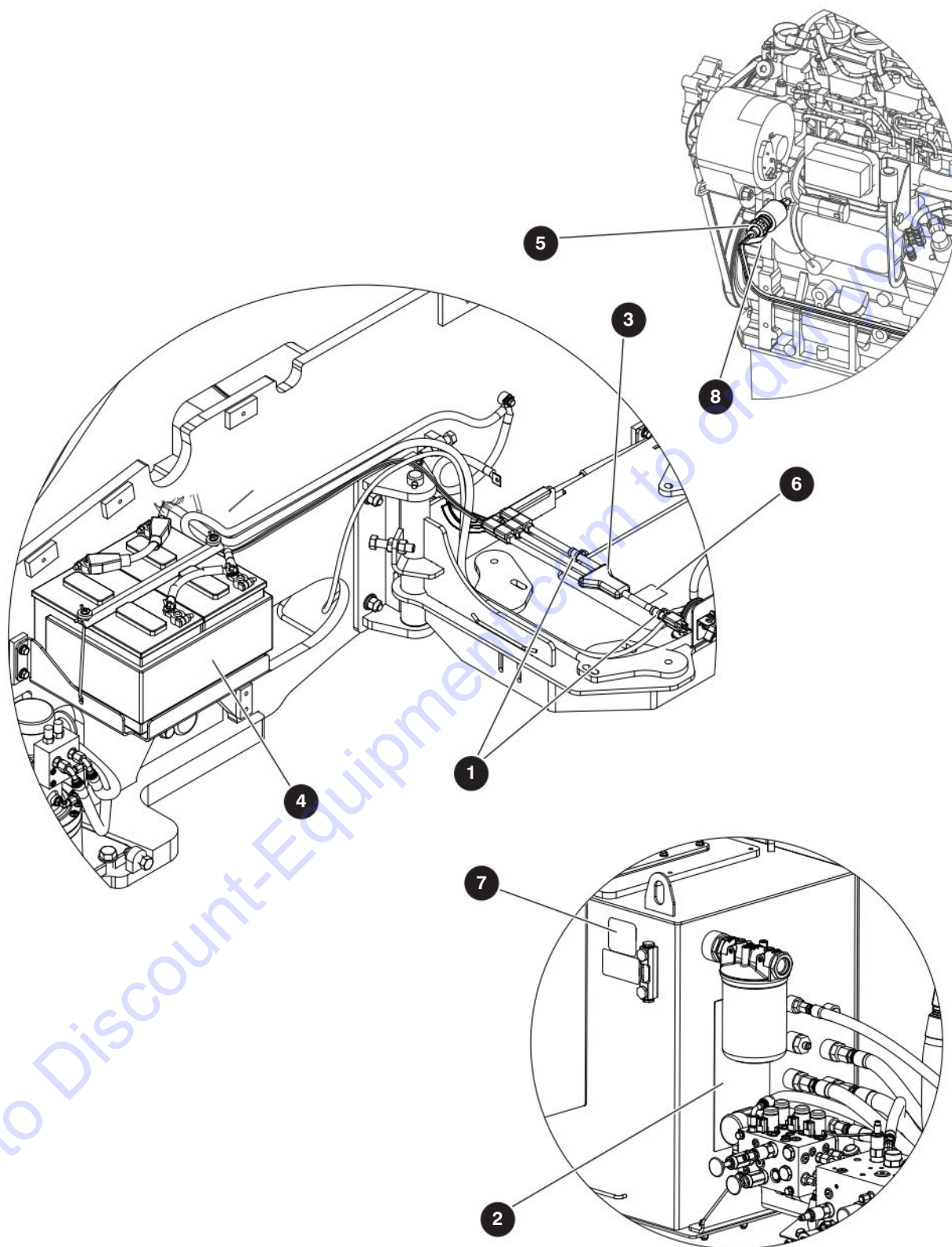
SJ85 AJ

## 9.22 Cold Start Package

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	171978	1	COLD START KIT - <b>ANSI/CSA Deutz D2011</b>
<b>B</b>	171979	1	COLD START KIT - <b>ANSI/CSA Deutz TD2.9L</b>
<b>C</b>	216034	1	COLD START KIT - <b>ANSI/CSA Kubota WG3800</b>
-	171165	1	• COLD START WARMING KIT
1	144129	2	• • CLIP, Single (S332G10)
2	166261	1	• • HEATER, Pad (1000W)
3	159888	1	• • CORD, "W" (12/13AWG 15A x 2' long)
4	171097	1	• • BLANKET, Battery
5	146021	1	• LABEL, Hydraulic oil/battery warmer cord
6	146162	1	• LABEL, Cold weather factory oil (located on engine oil dipstick), <b>A, B</b>
7	194307	1	• INSTRUCTION, Cold start install and operation (not shown)



## 9.23 Arctic Package



M171981AA

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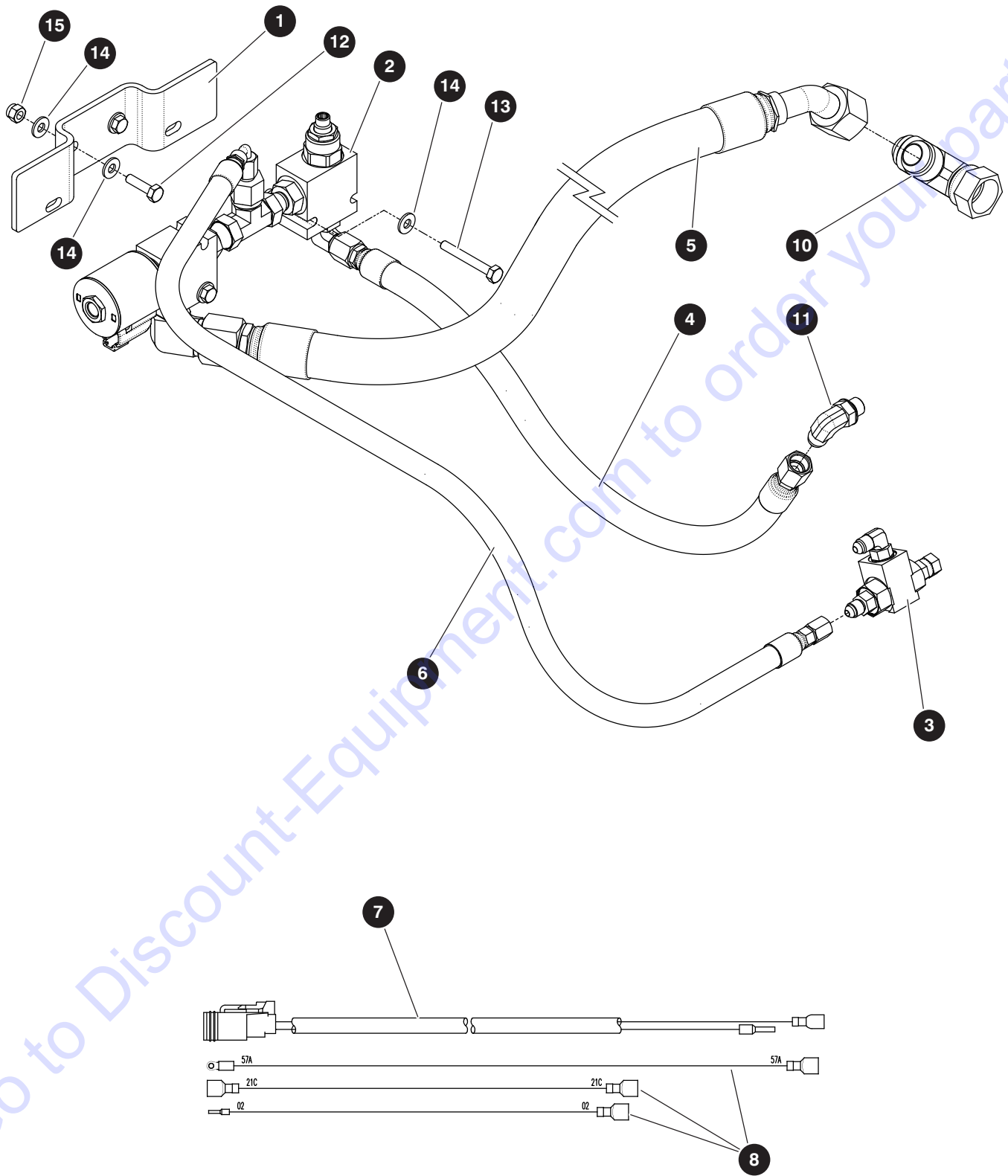
**SKYJACK**



## 9.23 Arctic Package

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	171980	1	ARCTIC KIT - <b>ANSI/CSA Deutz D2011</b>
<b>B</b>	171981	1	ARCTIC KIT - <b>ANSI/CSA Deutz TD2.9L</b>
<b>C</b>	216036	1	ARCTIC KIT - <b>ANSI/CSA Kubota WG3800</b>
-	171165	1	• COLD START WARMING KIT
1	144129	2	• • CLIP, Single (S332G10)
2	166261	1	• • HEATER, Pad (1000W)
3	159888	1	• • CORD, "W" (12/13AWG 15A x 2' long)
4	171097	1	• • BLANKET, Battery
5	144642	1	• HEATER, Oil pan, <b>A</b>
	165559	1	• HEATER, Block, <b>B</b>
	198411	1	• HEATER, Block, <b>C</b>
6	144632	1	• LABEL, Hydraulic oil/battery warmer
7	144633	1	• LABEL, Arctic hydraulic oil
8	144635	1	• LABEL, Arctic engine oil, <b>A, B</b>
9	(Ref.)	1	• LOAD CIRCUIT KIT, <b>B</b> (For components, refer to 9.24 Load Circuit)
10	170949	1	• INSTRUCTION, Arctic package install and operation (not shown)

## 9.24 Load Circuit



M212851AA

229037ADA

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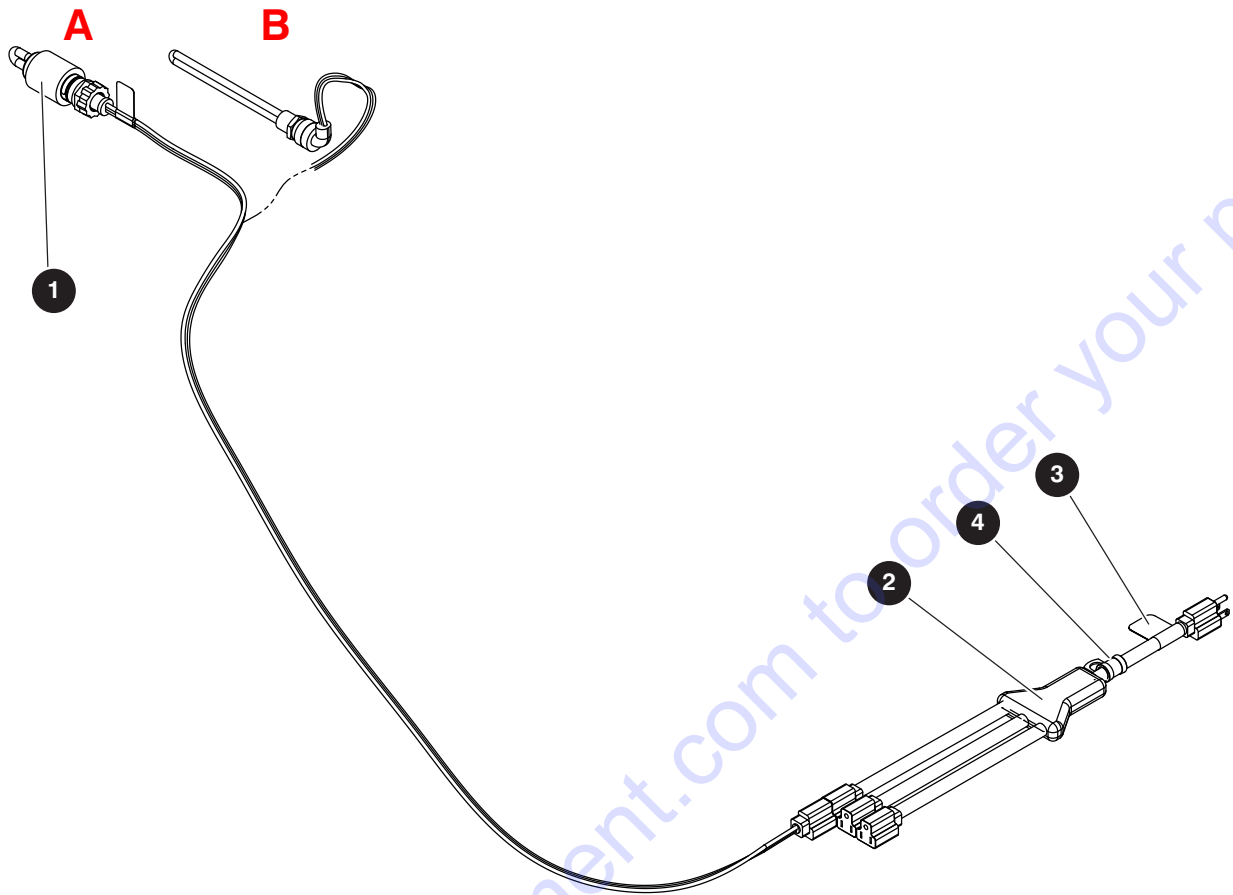
SJ85 AJ

**SKYJACK**

## 9.24 Load Circuit

Index No.	Skyjack Part No.	Qty.	Description
-	216055	1	LOAD CIRCUIT MANIFOLD KIT - <b>ANSI/CSA Deutz TD2.9L with Arctic Package</b>
-	212851	1	• LOAD CIRCUIT MANIFOLD
1	170624	1	• • BRACKET, Manifold
2	194496	1	• • MANIFOLD ASSEMBLY, Load circuit
	194492	1	• • • VALVE, Load circuit
	194493	1	• • • VALVE, Needle valve
	194516	2	• • • FITTING, Straight (08JIM-08JICFS)
	149226	1	• • • FITTING, 90° elbow (12JICM-08ORBM)
	102665	1	• • • FITTING, 90° elbow (06JICM-08ORBM)
	194575	1	• • • FITTING, Tee (08JICM-08JICM-08JICM)
	706812	1	• • F• ITTING, Straight (08JICF-04JICM)
3	194872	1	• • VALVE, Shuttle
	138394	1	• • • VALVE, Shuttle (04ORB)
	148445	1	• • • FITTING, Straight
	126128	1	• • • FITTING, Straight
	125883	1	• • • FITTING, 90° elbow (04JICM-04ORBM)
4	H510600200	1	• • HOSE, Hydraulic - H51 (0.38"/100R17 x 20" lg)
5	H521200320	1	• • HOSE, Hydraulic - H52 (0.75"/100R17 x 38" lg)
6	H540400340	1	• • HOSE, Hydraulic - H54 (0.25"/100R17 x 34" lg)
7	194712	1	• • HARNESS, Load circuit
8	196438	1	• • WIRE KIT, Load circuit
	127131	1	• • • RELAY
	138749	1	• • • SOCKET
9	194713	1	• • SCHEMATIC, Wire kit (not shown)
10	703413	1	• • FITTING, Run tee (12JICM-12JICFS-12JICM)
11	114578	1	• • FITTING, 90° elbow (06JICM-06ORBM)
12	103857	2	• • BOLT, Hex head (0.25"-20 x 1.00" gr 5)
13	103861	2	• • BOLT, Hex head (0.25"-20 x 2.00" gr 5)
14	103995	8	• • WASHER, Flat (0.25" SAE)
15	115649	4	• • NUT, Lock (0.25"-20 gr 5)
16	213014	1	• INSTRUCTION, Load circuit installation (not shown)

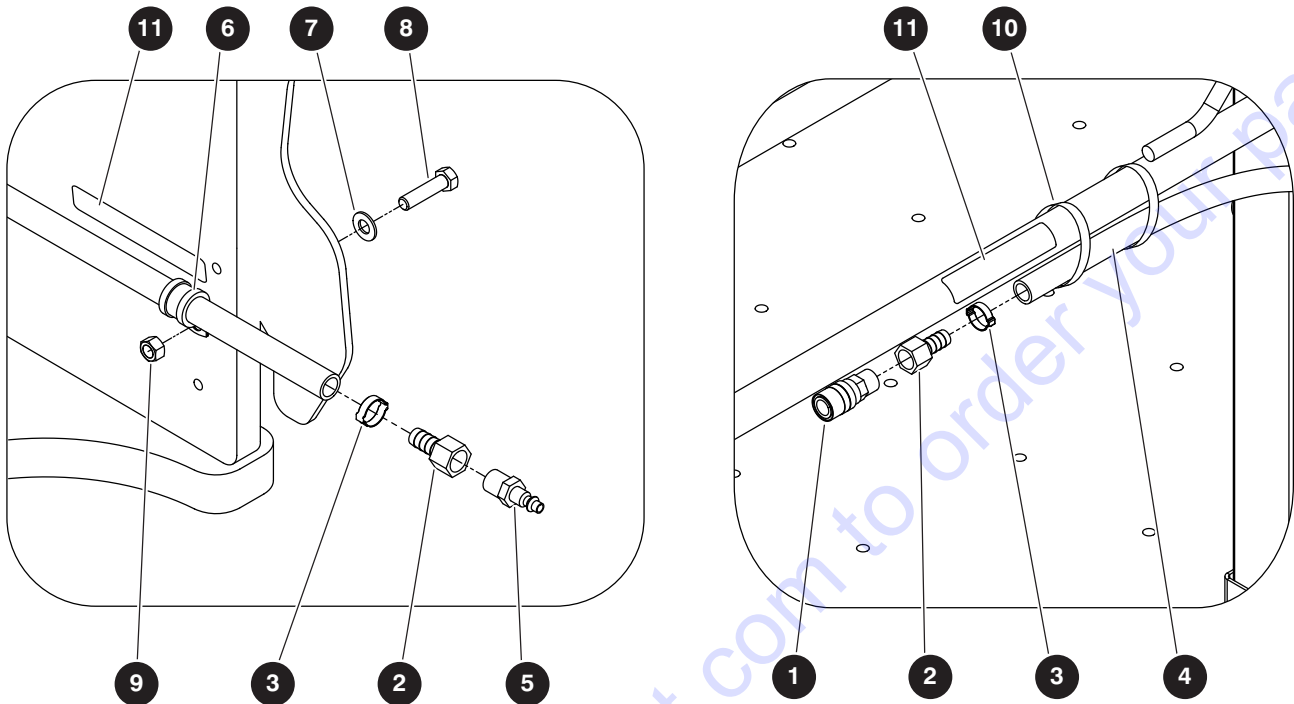
## 9.25 Block Heater



M171564AA\_M168886AB

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	171564	1	BLOCK HEATER ASSEMBLY - <b>ANSI/CSA with Deutz TD2.9L engine</b>
<b>B</b>	168886	1	BLOCK HEATER ASSEMBLY - <b>ANSI/CSA with Deutz D2011 engine</b>
1	165559	1	• HEATER, Block, <b>A</b>
	144642	1	• ELEMENT, Heater - oil pan, <b>B</b>
2	159888	1	• CORD, "W"
3	168880	1	• LABEL, Block heater
4	144129	1	• CLIP, Single

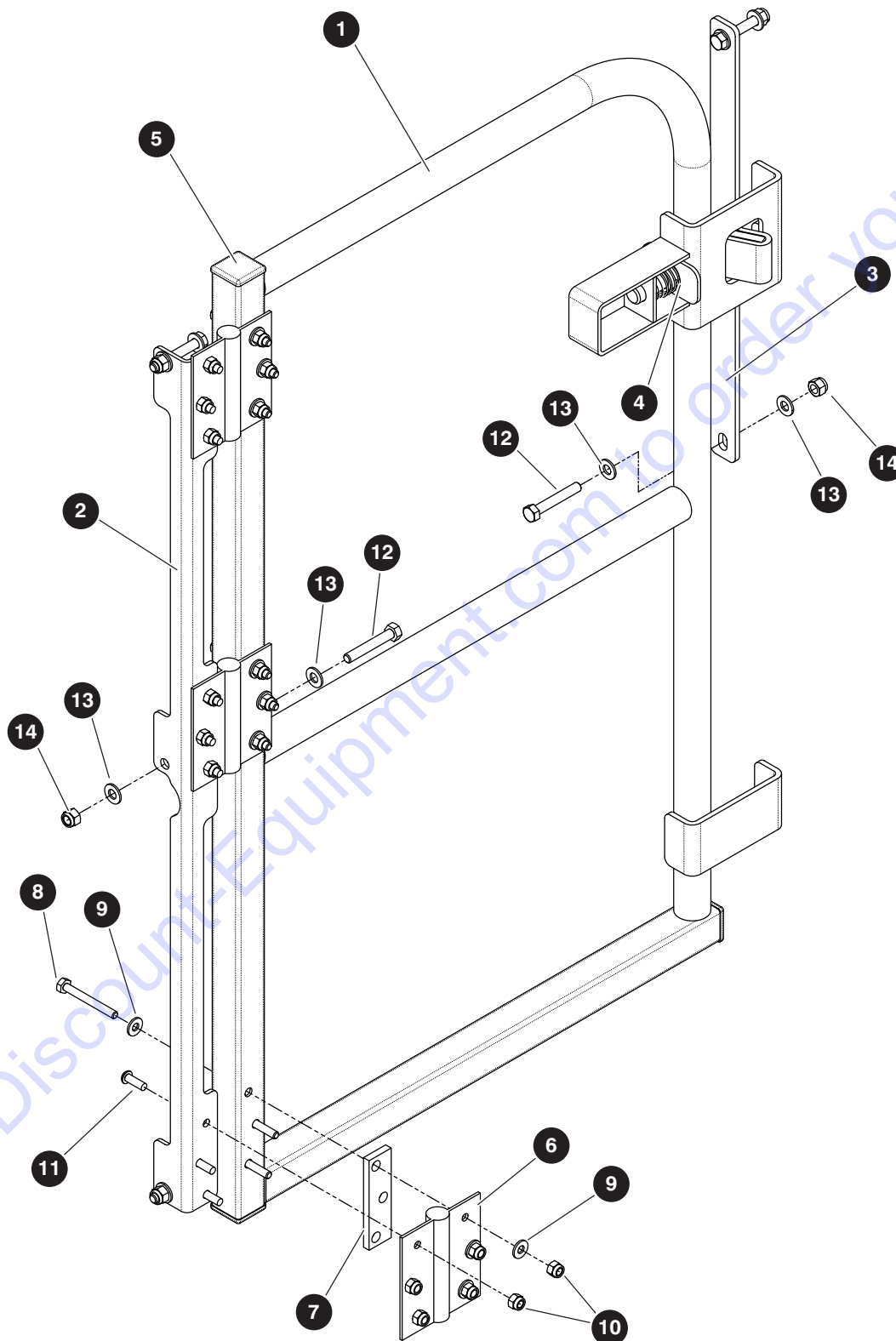
## 9.26 Air Line to Platform



M198318AD

Index No.	Skyjack Part No.	Qty.	Description
-	198318	1	AIR HOSE TO PLATFORM
1	107882	1	• FITTING, Female disconnect (B22E)
2	109050	2	• FITTING, Brass hose barb (126-8C)
3	107886	2	• CLAMP, Air hose
4	107884	1300"	• HOSE, Air (1/2" diameter) <b>A</b>
5	107883	1	• FITTING, Quick disconnect plug (16.1262)
6	152402	1	• CLAMP, Rube (cushioned)
7	103472	1	• WASHER, Flat (0.375")
8	212868	1	• BOLT, Hex head (0.375"-16 x 1.750" gr 5)
9	103978	1	• NUT, Hex head (0.375"-16 gr 5)
10	102891	2	• TIE, Cable (7-1/4")
11	138212	2	• LABEL, Connect air here

## 9.27 Half-Height Platform Mesh



M211359AA

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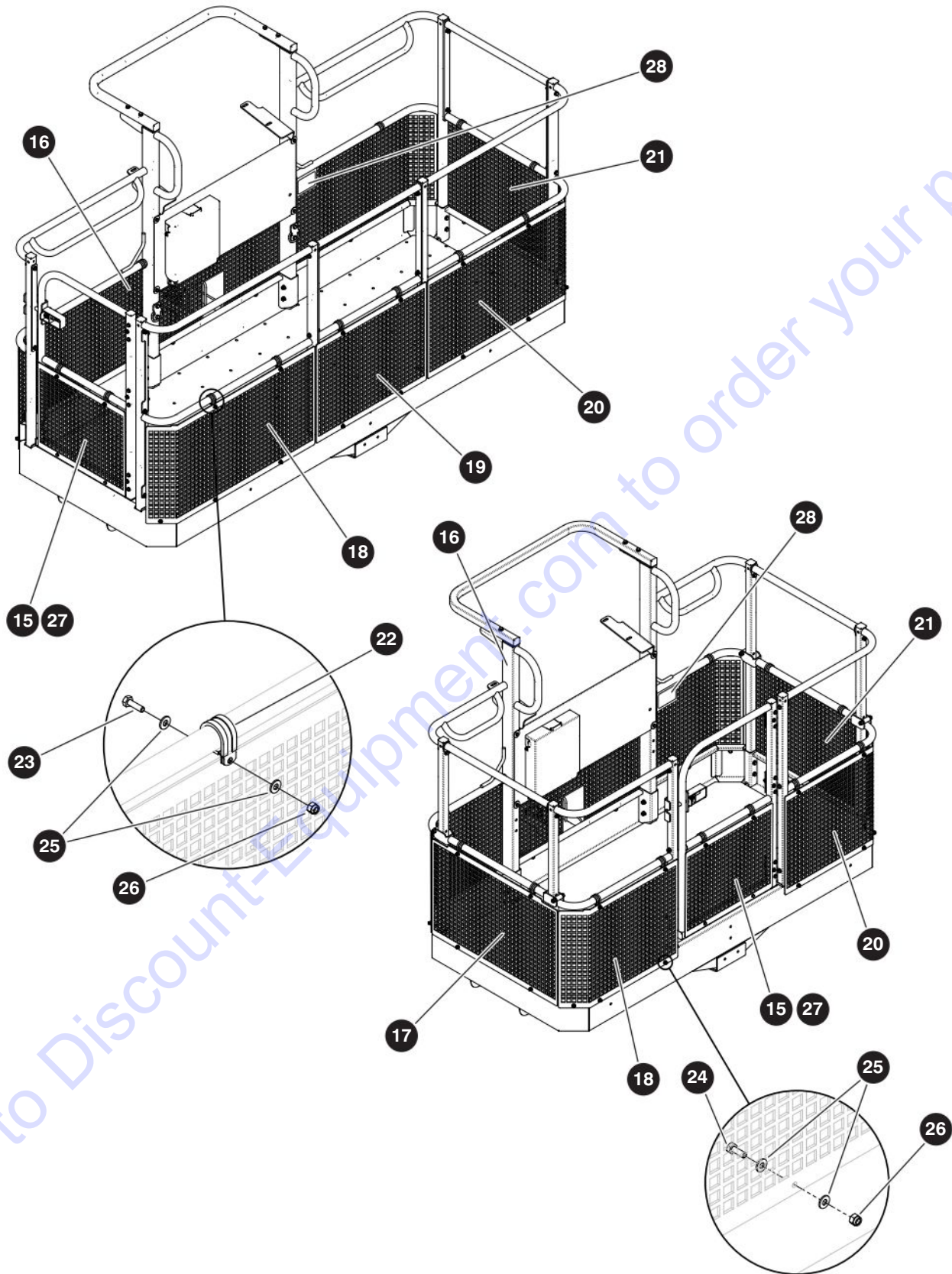


## 9.27 Half-Height Platform Mesh

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	211776	1	• HALF HEIGHT MESH KIT for 8' / 2.44 m Rear Entry Platform
<b>B</b>	211777	1	• HALF HEIGHT MESH KIT for 8' / 2.44 m Side Entry Platform
<b>C</b>	211778	1	• HALF HEIGHT MESH KIT for 6' / 2.44 m Rear Entry Platform
-	211360	1	• MESH ASSEMBLY, Rear entry 8' / 2.44 m platform, <b>A</b>
-	211362	1	• MESH ASSEMBLY, Side entry 8' / 2.44 m platform, <b>B</b>
-	211363	1	• MESH ASSEMBLY, Rear entry 6' / 2.44 m platform, <b>C</b>
-	211359	1	• • FULL SWING GATE
1	209032	1	• • • GATE, Swing - full
2	211375	1	• • • BRACKET, Mounting - hinge
3	166287	1	• • • PLATE, Locking
4	110824	1	• • • LATCH, Pin - door spring
	105312	1	• • • • BED, Latch
	109377	1	• • • • PIN, Latch (0.625" x 4.187")
	105307	1	• • • • HANDLE, Latch
	103107	1	• • • • SPRING, Compression
	100950		• • • • PIN, Spring (0.125" x 1.00")
5	100702	3	• • • PLUG, Tube (1.25" x 1.25")
6	209527	3	• • • HINGE, Spring
7	164592	3	• • • TAB, Hinge
8	103862	9	• • • BOLT, Hex head (0.25"-20 x 2.25" gr 5)
9	103995	18	• • • WASHER, Flat (0.25")
10	115649	18	• • • NUT, Lock (0.25"-20 gr 5 nylon)
11	139168	9	• • • BOLT, Button head cap screw (0.25"-20 x 0.75")
12	103865	5	• • • BOLT, Hex head (0.312"-18 x 2.00" gr 5)
13	103996	10	• • • WASHER, Flat (0.312")
14	103984	5	• • • NUT, Lock (0.313"-18 gr 5 nylon)

*Parts list continued on the next page.*

## 9.27 Half-Height Platform Mesh



M211777AA\_M211778AA

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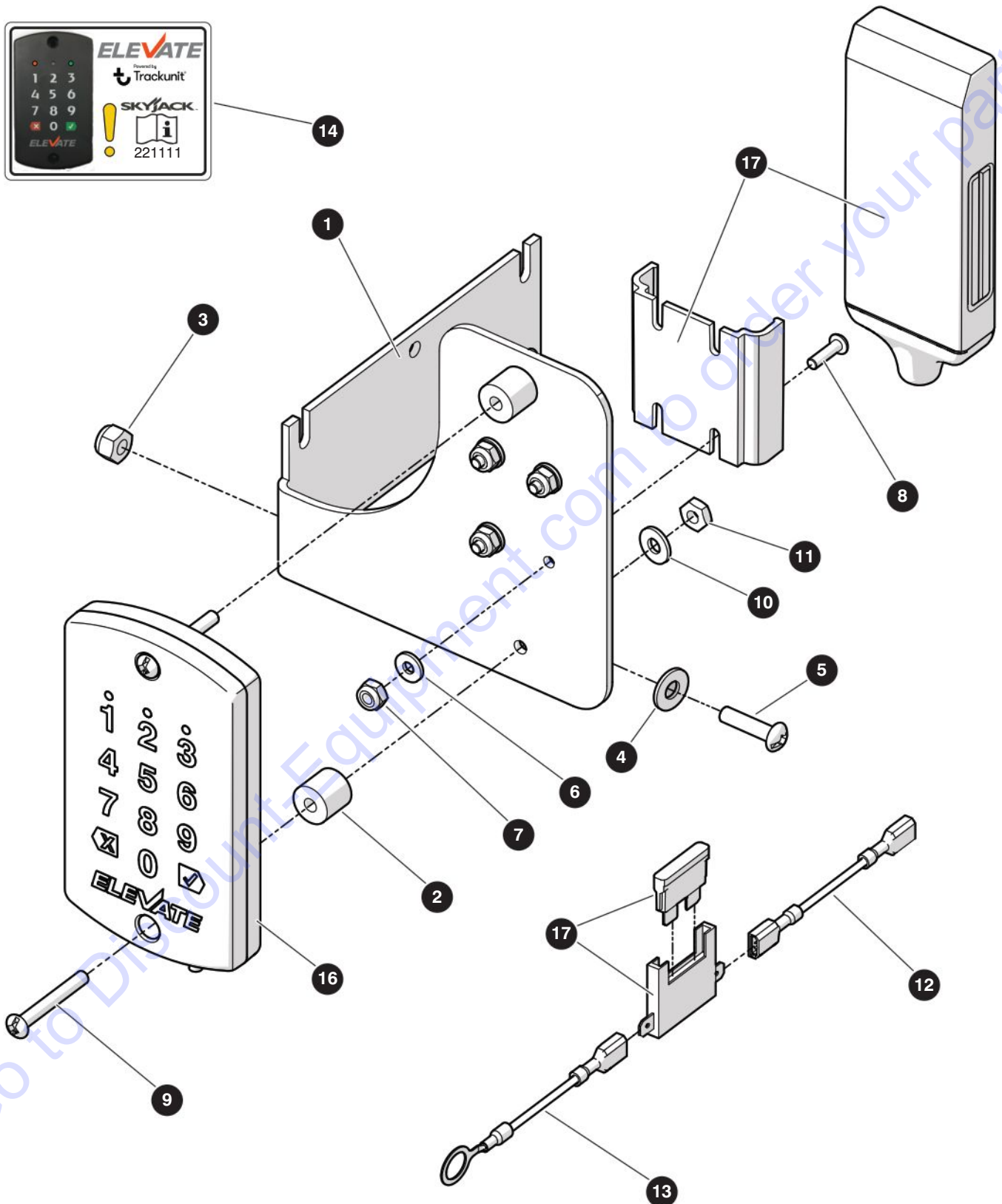
SJ85 AJ

SKYJACK

## 9.27 Half-Height Platform Mesh

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	211776	1	• HALF HEIGHT MESH KIT for 8' / 2.44 m Rear Entry Platform
<b>B</b>	211777	1	• HALF HEIGHT MESH KIT for 8' / 2.44 m Side Entry Platform
<b>C</b>	211778	1	• HALF HEIGHT MESH KIT for 6' / 1.83 m Rear Entry Platform
<b>Parts list continued from the previous page.</b>			
15	208942	1	• • MESH, Gate
16	209029	1	• • MESH, Front - 36" x 96" / 0.91 m x 2.44 m platform, <b>A, B</b>
	211604	1	• • MESH, Front - 36" x 72" / 0.91 m x 1.83 m platform, <b>C</b>
17	208940	1	• • MESH, Side - 36" / 0.91 m platform, <b>A, C</b>
18	209041	1	• • MESH, Rear LH - 36" x 96" / 0.91 m x 2.44 m platform, <b>A, B</b>
	211603	1	• • MESH, Rear LH - 36" x 72" / 0.91 m x 1.83 m platform, <b>C</b>
19	211613	1	• • MESH, Rear mid - 36" x 96" / 0.91 m x 2.44 m platform, <b>B</b>
20	211361	1	• • MESH, Rear RH - 36" x 96" / 0.91 m x 2.44 m platform, <b>A, B</b>
	211602	1	• • MESH, Rear RH - 36" x 96" / 0.91 m x 2.44 m platform, <b>C</b>
21	208940	1	• • MESH, Side - 36" / 0.91 m platform, <b>A, B, C</b>
22	209030	14	• • CLAMP, Loop - cushioned (#19), <b>A, B, C</b>
23	103891	14	• • BOLT, Hex head (0.25"-20 x 0.875" gr 5), <b>A, B, C</b>
24	103856	16	• • BOLT, Hex head (0.25"-20 x 0.75" gr 5), <b>A, B, C</b>
25	103995	60	• • WASHER, Flat (0.25"), <b>A, B, C</b>
26	115649	30	• • NUT, Lock (0.25"-20 gr 5 nylon), <b>A, B, C</b>
27	103632	2	• • BOLT, Self-tapping hex head (0.25"-14 x 0.75")
28	172519	1	• • LABEL, Mesh weight (25 kg/55 lb)
29	211727	1	• INSTRUCTION, Half height platform mesh installation (not shown)

## 9.28 Elevate Telematics



M223026AB


229037ADA

**288**

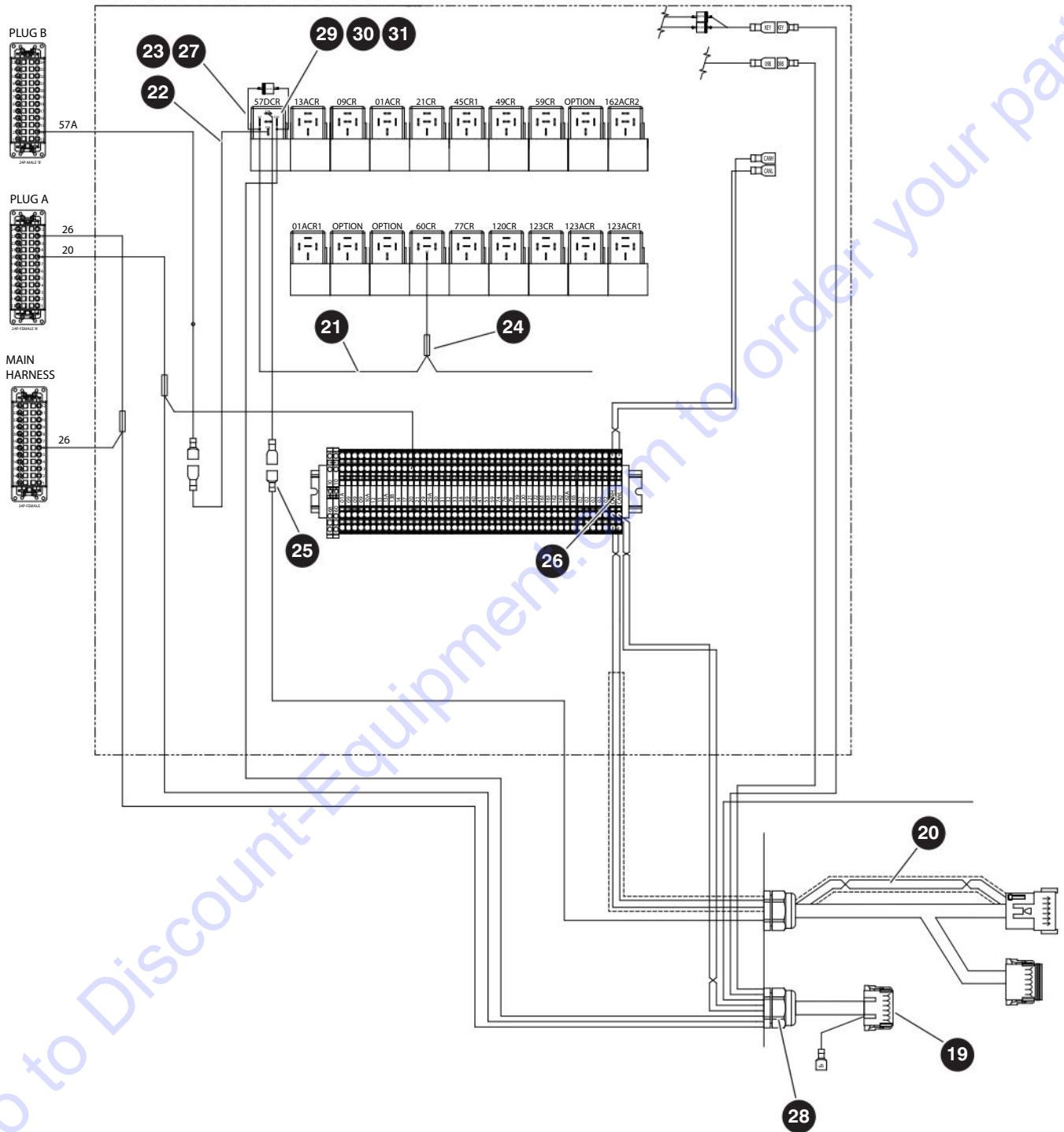
SJ85 AJ

**SKYJACK**

## 9.28 Elevate Telematics

Index No.	Skyjack Part No.	Qty.	Description
			 <b>NOTE</b> A subscription is required to use the Elevate Telematics option. Refer to "Elevate Telematics Subscription" on page 292.
<b>A</b>	223028	1	ELEVATE TELEMATICS WITH KEYPAD INSTALLATION KIT
<b>B</b>	223029	1	ELEVATE TELEMATICS WITHOUT KEYPAD INSTALLATION KIT
<b>C</b>	223263	1	ELEVATE TELEMATICS WITH KEYPAD REWORK KIT
<b>D</b>	223264	1	ELEVATE TELEMATICS WITHOUT KEYPAD REWORK KIT
			<b>NOTE: Use kits A and B for machines which already have a telematics harness connection plug. Use kits C and D for machines without a telematics plug.</b>
-	221993	1	• ELEVATE TELEMATICS INSTALLATION KIT
1	221143	1	• • BRACKET, Elevate keypad/GPS mounting
2	221134	2	• • SPACER, Keypad offset
3	300450	2	• • NUT, Lock (10-32 gr 5 nylon)
4	104694	2	• • WASHER, Flat (#10)
5	104698	2	• • SCREW, Round head machine (10-32 x 0.75")
6	191833	4	• • WASHER, Flat (#6)
7	196306	4	• • NUT, Lock (6-32 gr 5 nylon)
8	114678	4	• • SCREW, Round head machine (6-32 x 0.50")
9	152294	2	• • SCREW, Round head machine (8-32 x 1.25")
10	103991	2	• • WASHER, Flat (#8)
11	103986	2	• • NUT, Hex (8-32)
12	221149	1	• • WIRE ASSEMBLY, B+
13	220577	1	• • WIRE ASSEMBLY, B+
14	173002	1	• • LABEL, Equipped with Elevate keypad
15	102892	20	• • TIE, Cable (5-3/8") (not shown)
16	213099	1	• TELEMATICS, Elevate keypad, <b>A, C</b>
17	213098	1	• TELEMATICS, Elevate GPS ME501-4
	199295	1	• • COVER
	199296	1	• • BRACKET
	199297	1	• • BATTERY
	199298	1	• • CABLE, Control
	199299	1	• • FUSE KIT, 1 amp fuse and holder
18	221920	1	• INSTRUCTIONS, Elevate telematics ready installation (not shown), <b>A, B</b>
	223187	1	• INSTRUCTIONS, Elevate telematics rework - SJ85 AJ (not shown), <b>C, D</b>
			<b>The parts lists for C and D are continued on the next page.</b>

# 9.28 Elevate Telematics



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SJ85 AJ


**SKYJACK**



## 9.28 Elevate Telematics

Index No.	Skyjack Part No.	Qty.	Description
<b>A</b>	223028	1	ELEVATE TELEMATICS WITH KEYPAD INSTALLATION KIT
<b>B</b>	223029	1	ELEVATE TELEMATICS WITHOUT KEYPAD INSTALLATION KIT
<b>C</b>	223263	1	ELEVATE TELEMATICS WITH KEYPAD REWORK KIT
<b>D</b>	223264	1	ELEVATE TELEMATICS WITHOUT KEYPAD REWORK KIT
			<b><i>The parts list is continued from the previous page.</i></b>
-	221895	1	• WIRING FIELD KIT, Elevate, <b>C, D</b>
19	221896	1	• • HARNESS, Elevate plug
20	223262	1	• • HARNESS, CAN/L long
21	102702	17"	• • WIRE, Red
22	221878	2	• • WIRE ASSEMBLY, 57A/57B
23	221873	1	• • WIRE ASSEMBLY, D57D
24	105267	4	• • SPLICE, Butt (10-12 AWG insulated yellow vinyl)
25	105360	2	• • TERMINAL, Male (14-16 GA 1/4 insulated)
26	137940	2	• • BLOCK, Terminal - 4 cond through
27	126808	2	• • TERMINAL (14-18 GA 1/4 non-insulated) (not shown)
28	116266	1	• • CONNECTOR, Strain relief
29	127131	1	• • RELAY, 12 V 40 amp
30	138749	1	• • SOCKET, Automotive relay
31	221150	1	• • LABEL, 57DCR
32	221894	1	• • WIRE ASSEMBLY, CAN H+L connector (not shown)
33	221111	1	• INSTRUCTION, Operating - Elevate telematics (not shown), <b>A, C</b>

## 9.29 Elevate Telematics Subscription

Index No.	Skyjack Part No.	Qty.	Description
			 <b>NOTE</b> One of the following subscriptions is required to use the Elevate Telematics option.
1	221153	1	SUBSCRIPTION, Elevate telematics - Monitoring (12 months)
2	221647	1	SUBSCRIPTION, Elevate telematics - Engage (12 months)
3	221348	1	SUBSCRIPTION, Elevate telematics - Engage + Access (12 months)
4	221154	1	SUBSCRIPTION, Elevate telematics - Monitoring (36 months)
5	221650	1	SUBSCRIPTION, Elevate telematics - Engage (36 months)
6	221651	1	SUBSCRIPTION, Elevate telematics - Engage + Access (36 months)
7	221155	1	SUBSCRIPTION, Elevate telematics - Monitoring (60 months)
8	221654	1	SUBSCRIPTION, Elevate telematics - Engage (60 months)
9	221655	1	SUBSCRIPTION, Elevate telematics - Engage + Access (60 months)

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## Section 10 – Labels

**10.1** *Label Kits*

**10.2** *Labels - Controls Side*

**10.3** *Labels - Engine Side*

**10.4** *Labels - Platform*

## 10.1 Label Kits

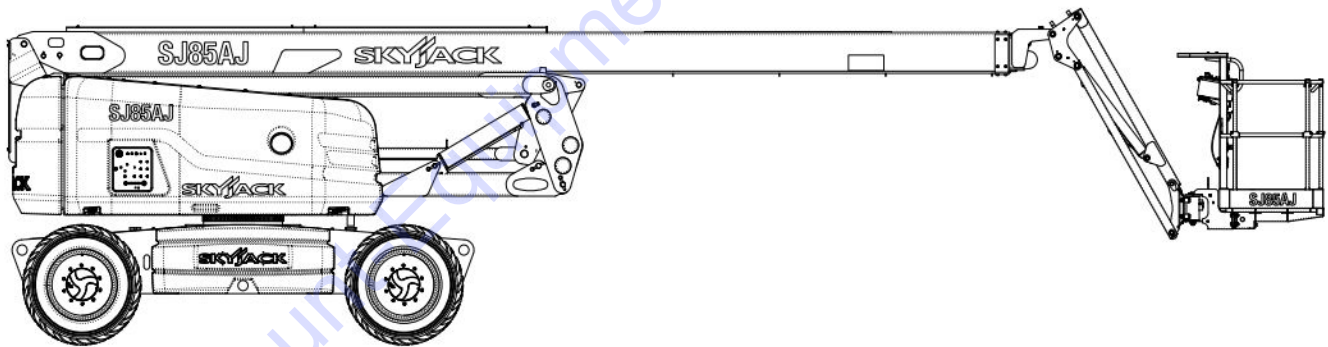
The following label kits contain all of the labels required for a complete standard machine, with the exception of:

- Serial number plates
- Engine- and fuel-specific labels
- Powerline clearance label for AS
- Safety tape

Contact Discount-equipment to order those labels individually.

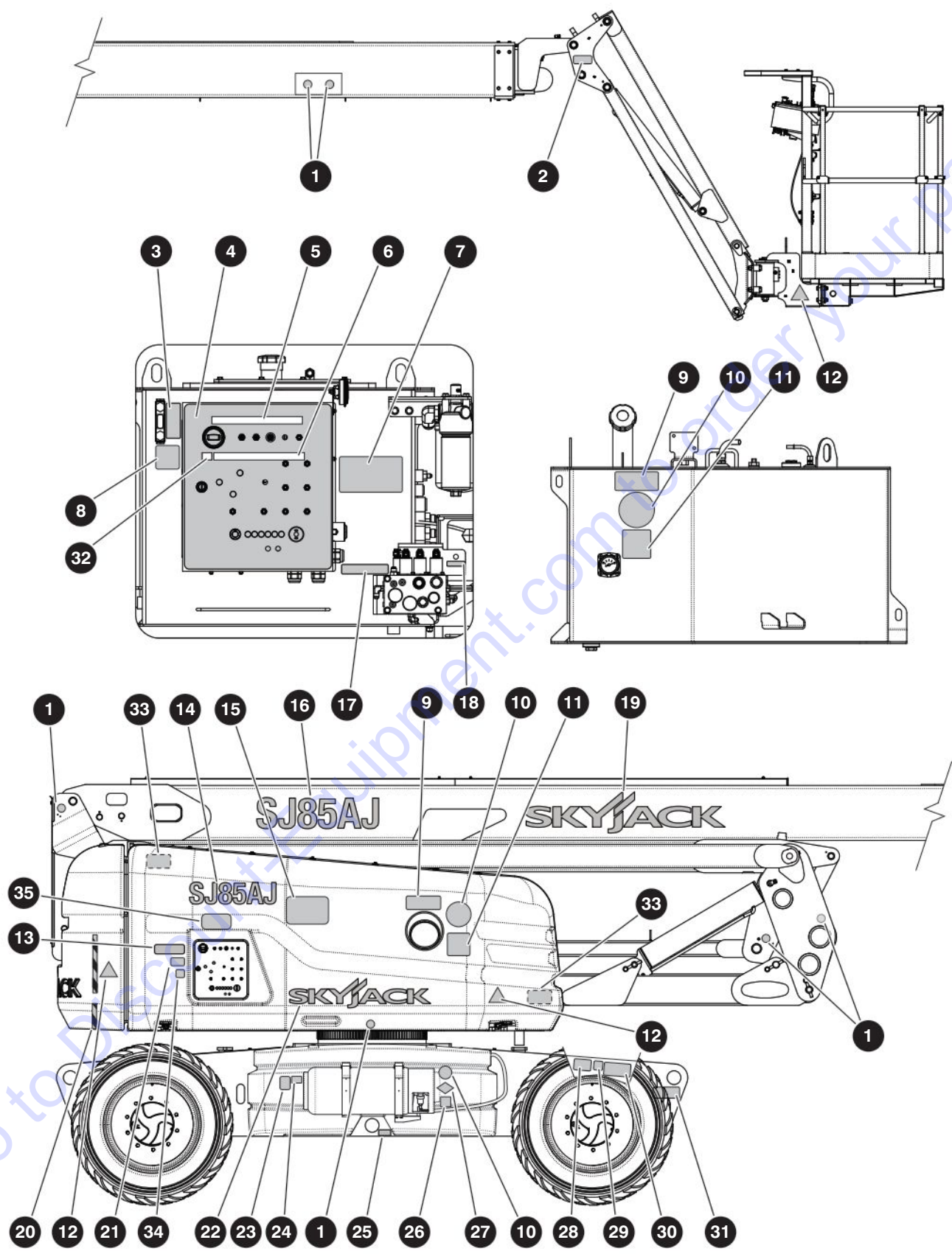
Supply the model number, country and language when ordering label kits.

Model	ANSI/CSA	CE	AS
SJ85 AJ	216257	216258	216259



**SKYJACK**<sup>TM</sup>

# 10.2 Labels - Controls Side



M173189AA-CS1

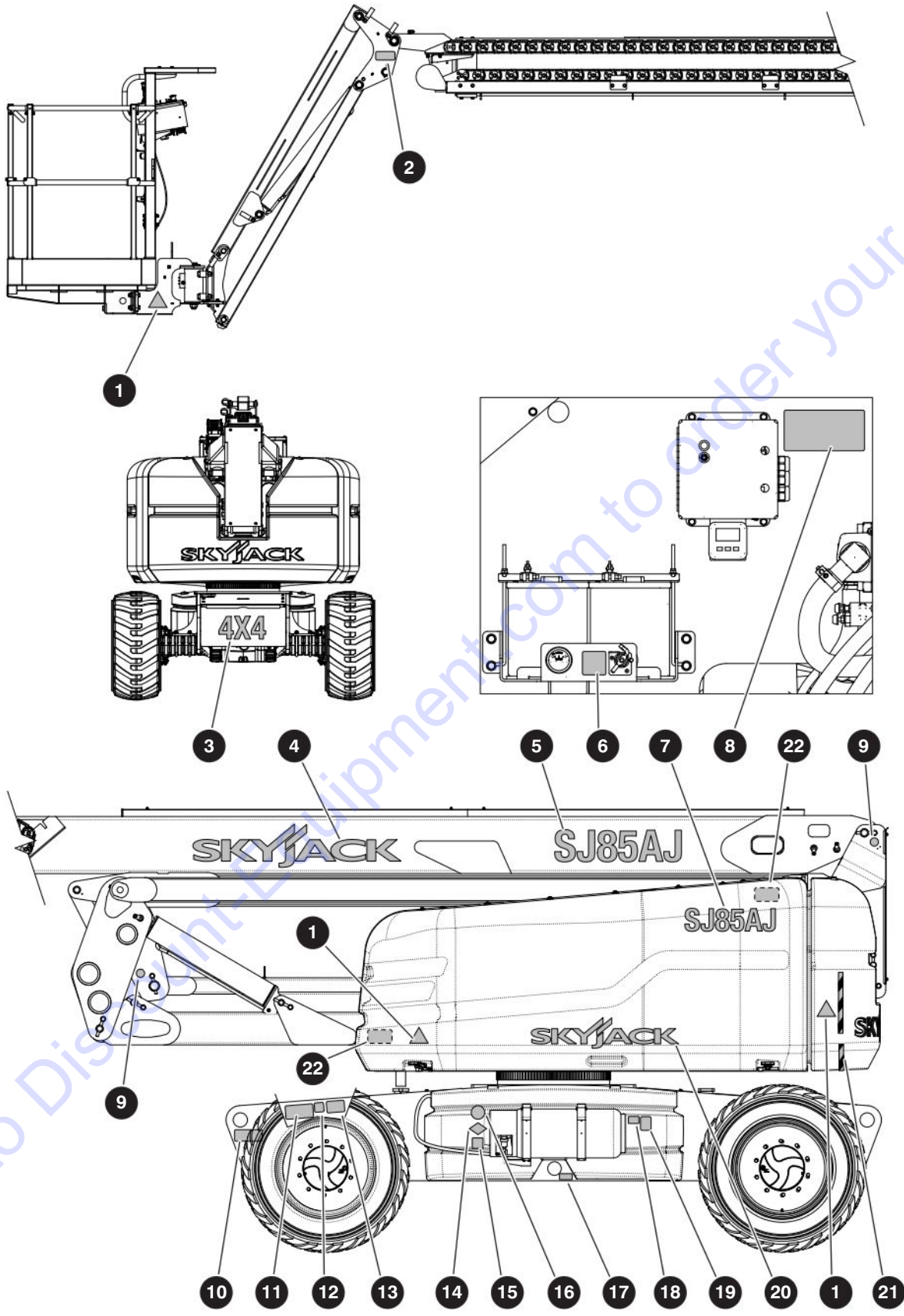
229037ADA

## 10.2 Labels - Controls Side

Index No.	Skyjack Part No.	Qty.	Description
1	156613	4	LABEL, Do not alter
2	137988	1	LABEL, Warning - crush/pinch point
3	172425	1	LABEL, Hydraulic oil level
4	173060	1	LABEL, Base Controls - <b>Deutz TD2.9L, Deutz D2011, Kubota</b>
	224617	1	LABEL, Base Controls - <b>Deutz TCD2.2</b>
5	198123	1	LABEL, Upper relay names - <b>ANSI/CSA, AS</b>
	198356	1	LABEL, Upper relay names - <b>CE</b>
6	198124	1	LABEL, Lower relay names - <b>ANSI/CSA, AS</b>
	198474	1	LABEL, Lower relay names - <b>ANSI/CSA with Positive Air Shut-off Option</b>
	228737	1	LABEL, Lower relay names - <b>CE</b>
7	223638	1	LABEL, Winch/tow procedure
8	143593	1	LABEL, Hydraulic oil - <b>Standard</b>
	144633	1	LABEL, Hydraulic oil - <b>Arctic weather option</b>
	172427	1	LABEL, Hydraulic oil - <b>Bio oil option</b>
9	168457	2	LABEL, Open slowly - <b>Kubota engine</b>
10	138146	3	LABEL, No smoking - <b>Kubota engine</b>
11	132400	2	LABEL, Unleaded gasoline - <b>Kubota engine</b>
	162852	2	LABEL, Ultra low sulfur fuel only - <b>Deutz TD2.9 and TCD2.2 engines</b>
	149502	2	LABEL, Low sulfur fuel only - <b>Deutz D2011 engine</b>
12	223640	3	LABEL, Body crush
13	172695	1	LABEL, Annual inspection
14	173142	1	LABEL, SJ85 AJ (23")
15	161631	1	LABEL, Power line clearance - <b>AS</b>
16	173143	1	LABEL, SJ85 AJ (33")
17	138211	1	LABEL, Connect AC supply
18	152230	1	LABEL, Grease point
19	164773	1	LABEL, Skyjack (51")
20	119803	18"	LABEL, Safety tape (1" wide)
21	173193	1	LABEL, Emergency lowering at base controls - <b>ANSI/CSA</b>
	173187	1	LABEL, Emergency lowering at base controls - <b>CE</b>
22	161142	1	LABEL, Skyjack (36")
23	150976	1	LABEL, Sound power level - <b>CE, AS</b>
24	117023	1	LABEL, CE mark - <b>CE</b>
25	157528	1	LABEL, Tie down
26	103023	1	LABEL, LPG fuel - <b>Kubota engine</b>
27	120390	1	LABEL, Propane - <b>Kubota engine</b>
28	124631	2	LABEL, Wheel info
29	172562	2	LABEL, Wheel load (7710 kg/17,000 lb)
30	142384	2	LABEL, Foam fill only
31	124767	2	LABEL, Lift point/tie down
32	211150	1	LABEL, Relay 57DCR - <b>Elevate Telematics Option</b>
33	172680	2	LABEL, Maintenance support (located on the turret inner wall)
34	172939	1	LABEL, E-lowering information
35	173300	1	LABEL, Regeneration procedure - <b>Deutz TCD2.2</b>



# 10.3 Labels - Engine Side



M172480AD-ES

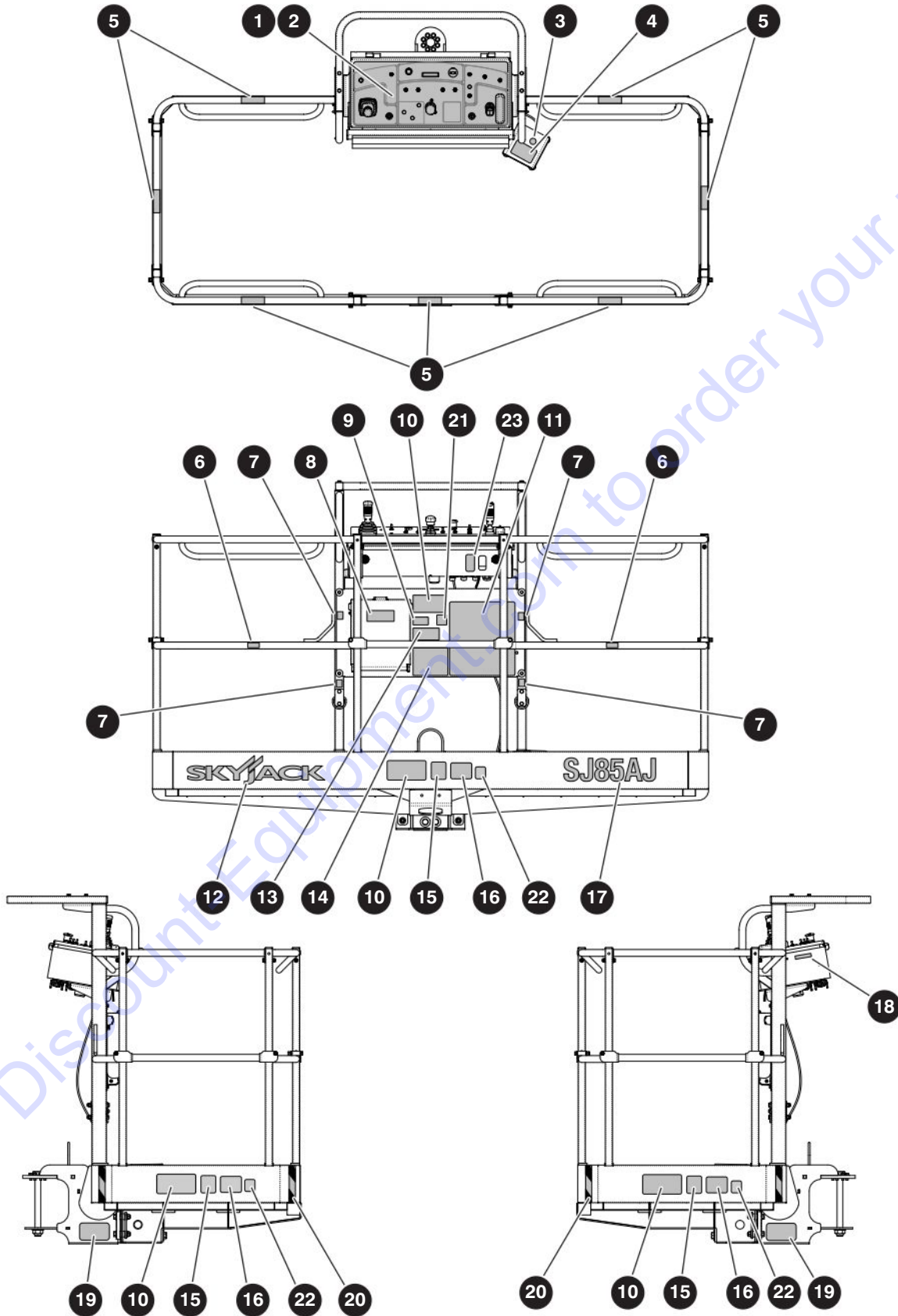
229037ADA

SJ85 AJ

## 10.3 Labels - Engine Side

Index No.	Skyjack Part No.	Qty.	Description
1	223640	3	LABEL, Body crush
2	137988	1	LABEL, Warning - crush/pinch point
3	159509	2	LABEL, 4X4
4	164773	1	LABEL, Skyjack (51")
5	173143	1	LABEL, SJ85 AJ (33")
6	119674	1	LABEL, Battery disconnect switch
7	173142	1	LABEL, SJ85 AJ (23")
8	223638	1	LABEL, Winch/tow procedure
9	156613	2	LABEL, Do not alter
10	124767	2	LABEL, Lift point/tie down
11	142384	2	LABEL, Foam fill only
12	172562	2	LABEL, Wheel load (7500 kg/16,500 lb)
13	124631	2	LABEL, Wheel info
14	120390	1	LABEL, Propane - <b>Kubota engine</b>
15	103023	1	LABEL, LPG fuel - <b>Kubota engine</b>
16	138146	2	LABEL, No smoking - <b>Kubota engine</b>
17	157528	1	LABEL, Tie down
18	117023	1	LABEL, CE mark - <b>CE</b>
19	150976	1	LABEL, Sound power level - <b>CE, AS</b>
20	161142	1	LABEL, Skyjack (36")
21	119803	18"	LABEL, Safety tape (1" wide)
22	172680	2	LABEL, Maintenance support (located on the turret inner wall)

# 10.4 Labels - Platform



M172480AA-PL1

229037ADA

SJ85 AJ

## 10.4 Labels - Platform

Index No.	Skyjack Part No.	Qty.	Description
1	198131	1	LABEL, Platform controls - <b>Deutz TD2.2L, Deutz D2011, Kubota</b>
	224615	1	LABEL, Platform controls - <b>Deutz TCD2.2</b>
2	232730	1	LABEL, Relay names (located inside the control box)
3	156613	1	LABEL, Do not alter
4	143638	1	LABEL, Footswitch enable
5	137988	6	LABEL, Crush/pinch point
6	115543	7	LABEL, Warning - no step
7	172639	4	LABEL, Harness anchorage - <b>ANSI/CSA, AS</b>
	172640	4	LABEL, Harness anchorage - <b>CE</b>
8	123628	1	LABEL, Manual box
9	173081	1	LABEL, California proposition 65 - <b>ANSI/CSA</b>
10	173150	4	LABEL, Capacity - dual (750/500 3/2P)
11	173192	1	LABEL, Warning - hazards
12	172272	1	LABEL, Skyjack logo (24")
13	147043	1	LABEL, "Click it!"
14	161631	1	LABEL, Clearance power lines - <b>AS</b>
15	124362	3	LABEL, Warning - do not wear jewelry
16	159513	3	LABEL, Daily maintenance checklist
17	173141	1	LABEL, "SJ85 AJ" (17")
18	138211	1	LABEL, Connect AC supply
19	147111	2	LABEL, Tie down points transportation
20	119803	24"	LABEL, Safety tape (1" wide)
21	173202	1	LABEL, Air filled tires tip over hazard
22	172693	3	LABEL, Non-insulated
23	224616	1	LABEL, Override switch

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