MODELS | SJ46AJ SJ51AJ



Parts Manual

Articulating Boom Series

Part No. 143920AJ June 2024

SKYJACK

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Index No.	Skyjack Part No.	Qty.	Description
			Parts list continued from the previous page.
26	144264	2	• PLUG (9/32")
27	139128	1	• PLUG (0.88"), A, D
	139128	2	• PLUG (0.88"), B, E
28	(Ref.)	-	• CONTROLLER, Boom / Turret Controller (Dual Axis) (For components, refer to Section 1.7)
29	(Ref.)	-	• CONTROLLER, HMS7 without rocker (Single Axis) (For components, refer to Section 1.9)
30	(Ref.)	-	• CONTROLLER, Drive / Steer (Dual Axis) (For components, refer to Section 1.8)
31	139127	2	• PLUG (1/2"), B, E
32	138278	4	• SWITCH, Toggle, B, C, E
	138278	5	• SWITCH, Toggle, A, D
33	144016	8	• PANEL BUSHING SEAL, B
	144016	9	• PANEL BUSHING SEAL, A, C, E
	144016	10	• PANEL BUSHING SEAL, D
34	124446	1	• SWITCH, Toggle
35	(Ref.)	1	• BASE ASSEMBLY SWITCH, (2NC/LED RED)
	147056	1	• • LATCH, Mounting
	147053	2	• • BLOCK, NC Contact
	147229	1	• • SWITCH, LED Block (Red)
36	147051	1	• SWITCH HEAD, Emergency stop
37	138229	1	• MODULE, Upper indicating
	139203	6	• • BULB, 12V
38	(Ref.)	1	• BASE ASSEMBLY SWITCH, (NO)
	147056	1	• • LATCH, Mounting
	147054	1	• • BLOCK, NO Contact
39	147058	1	• SWITCH HEAD, Horn pushbutton
40	115747	1	• SWITCH, Toggle
41	115574	1	• SWITCH, Toggle, A, B, C
	115574	2	• SWITCH, Toggle, D, E
42	138279	1	• SWITCH, Toggle, C
43	103855	2	• BOLT, Hex head (1/4"-20 x 1/2", Grade 5)
44	103995	2	• WASHER, Flat (1/4")
45	149402	1	• HANDREST
46	148971	1	• LIGHT, Pilot
47	148988	1	• SWITCH, Toggle
48	103024	1	CLIP, Single (G8)

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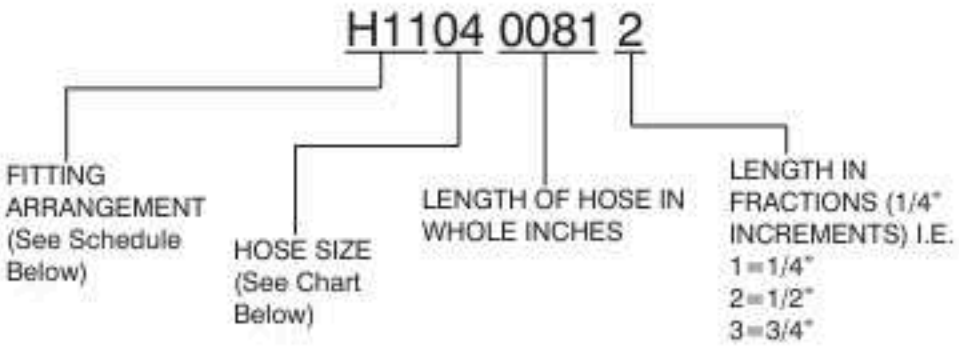
Index No.	Skyjack Part No.	Qty.	Description
A	(Ref.)	1	BATTERY ASSEMBLY (ANSI/CSA)
B	(Ref.)	1	BATTERY ASSEMBLY (CE & AS - Deutz)
1	144676	1	BATTERY (12V, 950 CCA)
2	157646	1	PAD, Battery
3	138785	1	PLATE, Battery holdown
4	103983	2	NUT, Hex head Jam (1/4"-20,Grade 5)
5	138786	2	ROD, Threaded (1/4"- 20)
6	115649	2	NUT, Hex nylon lock (1/4"- 20 Grade 5)
7	103995	2	WASHER, Flat (1/4")
8	119725	1	SWTICH, Main lockout
9	108714	1	Mount, Lockout switch
10	104185	2	WASHER, Lock (#10)
11	115545	2	SCREW, Round head machine (#10 - 32 x 3/8")
12	152327	1	MOUNT, Battery switch
13	101632	2	BOLT, Hex head (3/8"-16 x 3/4", Grade 5)
14	125959	2	WASHER, Flat (3/8" hardened)
15	103999	2	WASHER, Lock (3/8")
16	152323	1	CHARGE INDICATOR, 12V, B
17	138809	1	BATTERY (12V, 800 CCA) (Machine with S/N of 9500128 & below)
18	139160	1	PAD, Battery ((Machine with S/N of 9500128 & below)
19	128572	2	MOUNTING BAR, Battery (Machine with S/N of 9500128 & below)
20	147510	1	BRACKET, Retainer bar(Machine with S/N of 9500128 & below)
21	148331	2	BOLT, Hex head (0.312"-18 x 5/8", Grade 5) (Machine with S/N of 9500128 & below)
22	103404	2	WASHER, Lock (0.312") (Machine with S/N of 9500128 & below)
23	103996	2	WASHER, Flat (0.312") (Machine with S/N of 9500128 & below)

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Index No.	Skyjack Part No.	Qty.	Description
-	148621	1	GENERATOR WITH OIL COOLER OPTION (CE & AS, SJ51AJ)
1	703284	3	• FITTING, Elbow 90° (12 JICM - 12 JICFSW)
2	707277	1	• FITTING, Branch tee (12 JICM - 12 JICM - 12 ORBM)
3	706715	2	• FTG, Tee swivel (-8 JIC)
4	114583	1	• FITTING, Elbow 90° (08 JICM - 08 ORBM)
5	103980	4	• NUT, Hex head (1/4"-20, Grade 8)
6	127284	4	• BOLT, Hex head (1/4"-20 x 2.5", Grade 5)
7	104000	4	• WASHER, Lock (1/4")
8	103995	8	• WASHER, Flat (1/4")
9	139739	2	• FITTING, Elbow 45° (08 JICM - 08 ORBM)
10	704859	2	• FITTING (08MJ06MB)
11	703412	1	• FITTING, Straight (12 JICF - 08 JICM)
12	105445	1	• FITTING, Elbow 90° (12 JICM - 12 ORBM)
13	152593	1	• PAD, Wear (5.00" X 4.00" X 3.329")
14	152558	1	• BRACKET, Valve mount
15	152520	1	• GENERATOR (3500 WATT - 50Hz AC)
	210410	1	• • VALVE, Flow control
16	152595	1	• SOLENOID VALVE ASSEMBLY
17	152596	1	• RELIEF VALVE ASSEMBLY
18	152592	1	• WELDMENT, Generator mount
19	152533	1	• OIL COOLER ASSEMBLY
20	148408	1	• • BRACKET, Oil cooler
21	139092	1	• • COOLER, Hydraulic oil
	209374	1	• • FAN, Oil cooler
22	103978	4	• • NUT, Hex head (3/8"-16 x 1.5", Grade 5)
23	103472	11	• • WASHER, Flat (3/8")
24	103870	3	• • BOLT, Hex head cap (3/8"-16 x 1.5", Grade 5)
25	103473	4	• • BOLT, Hex head cap (3/8"-16 x 1", Grade 5)
26	152594	1	• SPACER
27	103472	4	• WASHER, Flat (3/8")
28	103870	4	• BOLT, Hex head (3/8"-16 x 1.5", Grade 5)
29	103847	2	• BOLT, Hex head (M10 x 1.5 x 20mm, Grade 9.8)
30	600315	2	• WASHER, Flat (M10, DIN 125)
31	125959	2	• WASHER, Flat hardened (3/8")
32	101297	2	• BOLT, Hex head (3/8"-16 x 1.25", Grade 5)
33	104606	2	• NUT, Hex nylon lock (3/8"-16, Grade 5)

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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. A medium length 90° JIC, female swivel fitting for the other end. The Hose must meet or exceed 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 **(Continued on the following page)**

HOSE PREFIX	HOSE END FITTING	HOSE END FITTING	S.A.E. HOSE SPECIFICATION
H01	FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R17
H02	FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R13
H03	FEMALE, 37º JIC, SWIVEL	45º, FEMALE, 37º JIC, SWIVEL	100R17
H04	FEMALE, 37º JIC, SWIVEL	45º, FEMALE, 37º JIC, SWIVEL	100R13
H05	FEMALE, 37º JIC, SWIVEL	LONG 90º, FEMALE, 37º JIC, SWIVEL	100R17
H06	FEMALE, 37º JIC, SWIVEL	SHORT 90º, FEMALE, 37º JIC, SWIVEL	100R17
H07	LONG 90º, FEMALE, 37º JIC, SWIVEL	LONG 90º, FEMALE, 37º JIC, SWIVEL	100R17
H08	FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R4
H09	FEMALE, 37º JIC, SWIVEL	45º, FEMALE, 37º JIC, SWIVEL	100R4
H10	FEMALE, 37º JIC, SWIVEL	MALE PIPE THREAD FITTING	100R17
H11	FEMALE, 37º JIC, SWIVEL	MEDIUM 90º, FEMALE, 37º JIC, SWIVEL	100R13
H12	SHORT 90º, FEMALE, 37º JIC, SWIVEL	SHORT 90º, FEMALE, 37º JIC, SWIVEL	100R17
H13	FEMALE, 37º JIC, SWIVEL	REUSABLE MALE PIPE THREAD FITTING	300 PSI
H14	REUSABLE MALE PIPE THREAD FITTING	NO FITTING	300 PSI
H15	REUSABLE, FEMALE, 37º JIC, SWIVEL	REUSABLE, FEMALE, 37º JIC, SWIVEL	300 PSI

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Index No.	Skyjack Part No.	Qty.	Description
A	148604	-	TURRET ASSEMBLY **(SJ 46A/AJ)**
B	148605	-	TURRET ASSEMBLY **(SJ 51AJ)**
1	156621	1	• WELDMENT, Turret, **A** **(Order P/N 148731 for machines with S/N & 95000093 below)**
	156622	1	• WELDMENT, Turret, **B** **(Order P/N149019 for machines with S/N 9500093 & below)**
2	148828	3	• PAD, Wear (5" x 1.5" x 5/8")
3	103473	10	• BOLT, Hex head (3/8"-16 x 1", Grade 5)
4	125959	19	• WASHER, Flat hardened (3/8")
5	149037	1	• PANEL, Filter mount
6	144015	2	• MOUNT, Anti vibration
7	115649	2	• NUT, Hex head (1/4"-20, Grade 5)
8	101297	5	• BOLT, Hex head (3/8"-16 x 1.25", Grade 5)
9	104606	3	• NUT, Hex nylon lock (3/8"-16, Grade 5)
10	148827	1	• PAD, Wear (5" x 4" x 5/8")
11	149303	1	• PIN, Turret lock **(Machines with S/N 95000093 & below)**
12	139161	1	• PIN, Quick release
13	105807	1	• LANYARD (6")
14	125958	1	• BOLT, Hex head (3/8"-16 x 3", Grade 5)
15	100844	17	• BOLT, Hex head (5/8"-11 x 2.75", Grade 8)
16	103895	6	• BOLT, Hex head (5/8"-11 x 3", Grade 8)
17	700782	23	• WASHER, Flat hardened (5/8")
18	103897	1	• BOLT, Hex head (5/8"-11 x 2", Grade 5)
19	103981	1	• NUT, Hex head (5/8"-11, Grade 5)
20	152397	1	• BRACKET, Standoff (Cowling)
21	300437	2	• BOLT, Hex head (3/8"-16 x 7/8", Grade 5)
22	103472	2	• WASHER, Lock (3/8")
23	103999	2	• WASHER, Flat (3/8")
24	146903	1	• STUD, Ball (10mm)
25	103984	1	• NUT, Hex nylon lock (0.313"-18, Grade 5)
26	152525	1	• PAD, Bumper
27	103596	2	• BOLT, Hex head (3/8"-16 x 2", Grade 5)
28	156605	1	• PIN, Turret lock **(Machines with S/N 95000094 & above)**
29	300060	1	• BOLT, Button head (1/4"-20 x 1/2) **(Machines with S/N 95000094 & above)**
30	103995	1	• WASHER, Flat (1/4") **(Machines with S/N 95000094 & above)**
31	(Ref.)	-	GREASE LINE HOSE ASSEMBLY (For components, refer to Section 4.15)
32	(Ref.)	-	15 DEGREES LIMIT SWITCH ASSEMBLY (For components, refer to Section 4.14)
-	(Ref.)	-	SUPPORT, Bumper (Field install, if equipped)
33	152616	1	• BRACKET **(Machines with S/N 95000033 & below)**
34	101297	2	• BOLT, Hex head (3/8"-16 x 1.25", Grade 5) **(Machines with S/N 95000033 & below)**
35	125959	2	• WASHER, Flat hardened (3/8") **(Machines with S/N 95000033 & below)**
36	104606	2	• NUT, Hex nylon lock (3/8"-16, Grade 5) **(Machines with S/N 95000033 & below)**

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