

PARTS MANUAL

TELESCOPIC BOOMS

MODELS SJ40T SJ45T

166871AJ July 2024

SKYJACK

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Index No.	Skyjack Part No.	Qty.	Description
1	157601	1	LOWER ARM
	148346	1	• WELDMENT, Lower arm
	100904	4	• BUSHING, Fiberglide (1.5" x 1.0")
2	(Ref.)	1	JIB CYLINDER ASSEMBLY
			(For components, refer to Section 3.5 Jib Cylinder Assembly)
3	703714	2	PAD, Wear
4	103887	8	BOLT, Hex head (5/16"-18 x 3/4" Grade 5)
5	(Ref.)	1	ACTUATOR, Rotary
			(For components, refer to Section 2.11 Rotary Actuator Assembly)
6	148347	1	WELDMENT, Bracket
7	147854	5	PIN
8	147585	1	PIN, Fly boom
9	125959	6	WASHER, Flat hardened (3/8")
10	138739	4	BOLT, Hex head patch (3/8"-16 x 3/4" Grade 5)
11	146897	6	PIN KEEPER (3/8")
12	139193	2	BOLT, Hex head patch (3/8"-16 x 7/8" Grade 8, zinc)
13	143987	2	CLAMP, P (2.5")
14	157602	1	UPPER ARM
	147579	1	• WELDMENT, Upper arm
	100904	4	• BUSHING, Fiberglide (1.5" x 1.0")
15	143954	1	COVER
16	101632	4	BOLT, Hex head (3/8"-16 x 3/4" Grade 5)
17	103472	4	WASHER, Flat (3/8")
18	103999	4	WASHER, Lock (3/8")
19	147571	1	WELDMENT, Bracket

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Index No.	Skyjack Part No.	Qty.	Description
			Parts list continued from the previous page.
26	(Ref.)	1	HIGH PRESSURE FILTER ASSEMBLY *(For components, refer to Section 4.8 High Pressure Filter Assembly)*
27	709677	3	BEARING, Ball transfer
28	144684	1	PIN, Turret lock
29	139161	1	PIN, Quick release
30	105807	2	LANYARD, (6")
31	138464	2	BOLT, Hex head (3/8"-16 x 5/8" Grade 5)
32	103472	6	WASHER, Flat (3/8")
33	(Ref.)	1	BATTERY ASSEMBLY *(For components, refer to Section 4.20 Battery Assembly)*
34	103473	2	BOLT, Hex head (3/8"-16 x 1" Grade 5)
35	119725	1	SWITCH, Main lockout
36	108714	1	MOUNT, Lock-out switch
37	115545	2	SCREW, Round head machine (#10-32 x 3/8")
38	104185	2	WASHER, Lock (#10)
39	(Ref.)	1	TURRET SWING DRIVE ASSEMBLY *(For components, refer to Section 4.9 Turret Swing Drive Assembly)*
40	138986	4	FITTING, Elbow, 90° (06 JICM - 06 JICM)
41	103309	2	FITTING, Tee (06 JICF - 06 JICM - 06 JICM)
42	139157	4	NUT, Bulkhead (06 JIC)
43	112532	1	BOLT, Hex head (5/16"-18 x 1 1/4" Grade 5)
44	103404	1	WASHER, Lock (5/16")
45	103897	1	BOLT, Hex head (5/8"-11 x 2" Grade 5)
46	103982	1	NUT, Hex head jam (5/8"-11, Grade 5)
47	133241	1	CLIP, Single
48	143987	1	P CLAMP, Tube (2.5 inches)
49	103870	2	BOLT, Hex head (3/8"-16 x 1 1/2" Grade 5)
50	103998	2	WASHER, Lock (5/8")
51	103899	2	BOLT, Hex head (5/8"-11 x 1" Grade 5)
52	138673	1	BOLT, Hex head (3/4"-10 x 2 1/4" Grade 5)
53	702194	1	WASHER, Flat hardened (3/4")
54	144270	1	BUSHING, Engine tray
55	104002	1	WASHER, Lock (3/4")
56	705240	1	NUT, Hex head (3/4"-10, Grade 5)
57	103855	1	BOLT, Hex head (1/4"-20 x 1/2" Grade 5) (If equipped)
58	104000	1	WASHER, Lock (1/4") (If equipped)
59	144287	1	BRACKET, Tray stop
60	125959	2	WASHER, Flat (3/8")
61	163893	1	BRACKET, Base cowling latch
64	300437	2	BOLT, Hex head (3/8"-16 x 0.875", Grade 5)

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Index No.	Skyjack Part No.	Qty.	Description
1	703412	2	FITTING, Straight (12 JICF - 08 JICM)
2	(Ref.)	1	HOSE *(For components, refer to Section 9.8 Hydraulic Hoses - Generator and Oil Cooler)*
3	144097	10	CLAMP, Mikalor
4	144058	1	FITTING, 90° (12 BEAD -10 ORBM)
5	144110	1	GENERATOR, Hydraulic (60Hz, 3500 W) (ANSI/CSA)
	168054	1	• MOTOR, Generator
	144526	1	GENERATOR, Hydraulic (50Hz, 3500 W) (CE & AS)
	(Ref.)	1	GENERATOR, Hydraulic (12 kW) *(For components, refer to Section 9.9 12 kW Generator Assembly)*
6	114583	2	FITTING, 90° (08 JICM - 08 ORBM)
7	139186	1	SUPPORT, Hydraulic generator
8	139007	5	BOLT, Hex head (1/2"-13 x 2" Grade 8)
9	104379	5	WASHER, Flat hardened (1/2")
10	144259	3	BOLT, Hex head (M10 x 1.25 x 35mm, Grade 9.8)
11	144260	3	NUT, Hex nylon lock (M10 x 1.25, Grade 8 ZP)
12	707006	1	FITTING, 90° (04 JICM - 08 ORBM)
13	144059	4	FITTING, 90° (12 BEAD -12 ORBM)
14	139092	1	COOLER, Hydraulic oil
	209374	1	• FAN, Oil cooler
15	300437	4	BOLT, Hex head (3/8"-16 x 7/8" Grade 5)
16	103999	8	WASHER, Lock (3/8")
17	125959	14	WASHER, Flat hardened (3/8")
18	139190	1	SUPPORT, Oil cooler
19	144046	2	MOUNT, Hydraulic tubes
20	101632	4	BOLT, Hex head (3/8"-16 x 3/4" Grade 5)
21	103472	4	WASHER, Flat (3/8")
22	144065	4	SPONGE, Tube mounting
23	144045	1	TUBE, Return
24	144043	1	TUBE, Pressure
25	144044	1	TUBE, Cooler collector
26	102659	1	FITTING, Straight (08JICM - 08ORBM)
27	706812	1	FITTING, Straight (04 JICM - 08 JICF) (If Equipped)
28	144087	1	FITTING, Straight (08 BARB - 08 JICFS)
29	144279	1	FITTING, Straight (12 JICM - 08 ORBM)
30	138394	1	VALVE, Shuttle (#4 ORB)
31	126128	1	FITTING, Straight (04 JICM - 04 ORBM)
32	125883	2	FITTING, 90° (04 JICM - 04 ORBM)
33	144191	1	FITTING, Straight (04 ORBM - 04 ORBM)
34	138405	1	VALVE, Generator control *(For components, refer to Section 9.4 Generator Control Valve Assembly)*
35	125958	2	BOLT, Hex head (3/8"-16 x 3" Grade 5)
36	104606	5	NUT, Hex lock (3/8"-16 Grade 5, nylon)
37	703413	1	TEE, Swivel (12 JICM x 12 JICM x 12 JICF)
38	702120	1	FITTING, 45/SW (12 JICM - 12 JICF)

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Index No.	Skyjack Part No.	Qty.	Description
1	164517	1	WELDMENT, Turret
2	(Ref.)	1	ROTARY MANIFOLD ASSEMBLY *(For components, refer to Section 4.12 Rotary Manifold)*
3	103999	4	WASHER, Lock (3/8")
4	703661	1	GEAR, Turret rotation
5	701762	23	BOLT, Hex head (5/8"-11 x 4 1/2" Grade 8)
6	700782	25	WASHER, Flat (5/8")
7	(Ref.)	1	POWER UNIT, Emergency *(For components, refer to Section 4.19 Emergency Power Unit)*
8	(Ref.)	1	FUEL TANK ASSEMBLY *(For components, refer to Section 4.16 Fuel Tank Assembly (GM Dual Fuel Engine))* *(For components, refer to Section 4.17 Fuel Tank Assembly (Deutz D2.9L Engine))* *(For components, refer to Section 4.18 Fuel Tank Assembly (Deutz D2011 Engine))*
9	(Ref.)	1	MAIN CONTROL VALVE ASSEMBLY *(For components, refer to Section 4.10 Main Manifold Assembly)*
10	(Ref.)	1	BRAKE CONTROL VALVE ASSEMBLY *(For components, refer to Section 4.11 Brake Control Valve Assembly)*
11	(Ref.)	1	REDUCING VALVE ASSEMBLY *(For components, refer to Section 4.14 Reducing Valve)*
12	(Ref.)	1	BASE CONTROL CONSOLE ASSEMBLY *(For components, refer to Section 4.21 Base Control Console (Deutz D2.9L Engine))* *(For components, refer to Section 4.22 Base Control Console (Deutz D2011 Engine))* *(For components, refer to Section 4.23 Base Control Console (GM Dual Fuel Engine))*
13	(Ref.)	1	HYDRAULIC TANK ASSEMBLY *(For components, refer to Section 4.15 Hydraulic Tank Assembly)*
14	(Ref.)	1	MASTER CYLINDER ASSEMBLY *(For components, refer to Section 3.3 Master Cylinder Assembly)*
15	138815	2	SCREW, Socket head cap (1/2"-13 x 1", nylon patch, zinc)
16	700425	2	WASHER, Master cylinder pin
17	144672	1	PIN, Master cylinder
18	138471	1	MAIN BOOM PIN ASSEMBLY *(For components, refer to Section 4.7 Main Boom Pin Assembly)*
19	(Ref.)	1	LIFT CYLINDER BRACKET ASSEMBLY *(For components, refer to Section 4.6 Lift Cylinder Bracket Assembly)*
20	(Ref.)	1	LIFT CYLINDER ASSEMBLY *(For components, refer to Section 3.1 Lift Cylinder Assembly)*
21	111356	2	SWITCH, Limit sealed **(ANSI/CSA)**
22	112248	2	SCREW, Round head machine (#8-32 x 1")
23	103991	2	WASHER, Flat (#8)
24	138765	2	NUT, Hex lock (#8-32 Grade 5, nylon)
25	139141	1	LIMIT SWITCH ASSEMBLY, Direction
	133075	1	• SWITCH, Limit sealed
	103958	2	• SCREW, Round head machine (#8-32 x 3/4")
	112249	2	• WASHER, Lock (#8)

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Fitting Arrangement Schedule (Continued from the previous page)

HOSE PREFIX	HOSE END FITTING	HOSE END FITTING	S.A.E. HOSE SPECIFICATION
H16	NO FITTING	NO FITTING	100R4
H17	NO FITTING	NO FITTING	300 PSI
H18	REUSABLE, FEMALE, 37º JIC, SWIVEL	NO FITTING	300 PSI
H19	LONG 90º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R13
H20	FEMALE, SHORT 37º JIC, SWIVEL	SHORT 90º, FEMALE, 37º JIC, SWIVEL	100R4
H21	FEMALE, SHORT 37º JIC, SWIVEL	SHORT 90º, FEMALE, 37º JIC, SWIVEL	100R2AT
H22	FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R2AT
H23	FEMALE, LONG 37º JIC, SWIVEL	LONG 90º, FEMALE, 37º JIC, SWIVEL	100R2AT
H24	FEMALE, SHORT 37º JIC, SWIVEL	SHORT 90º, FEMALE, 37º JIC, SWIVEL	100R13
H25	FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R4
H26	SHORT 90º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R17
H27	LONG 90º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R17
H28	FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R17
H29	SHORT 45º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R17
H30	MEDIUM 90º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R17
H31	FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R17
H32	SHORT 45º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R17
H33	MEDIUM 45º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R17
H34	SHORT 90º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R17
H35	MEDIUM 90º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R17
H36	LONG 90º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R17
H37	SHORT 45º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R4
H38	SHORT 90º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R4
H39	LONG 90º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R4
H40	SHORT 90º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R16
H43	FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R16
H51	FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R17
H52	SHORT 45º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R17
H53	MEDIUM 45º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R17
H54	SHORT 90º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R17
H55	MEDIUM 90º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R17
H56	LONG 90º, FEMALE, 37º JIC, SWIVEL	FEMALE, 37º JIC, SWIVEL	100R17

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