

PARTS MANUAL (ANSI/CSA, CE & KC)

VERTICAL MAST

MODELS SJ12 SJ16

161862AHA April 1 2026

SKYJACK

MidWestTech | Skyjack SJ12, SJ16 Vertical Mast Lift Parts Manual | Publication 161862AHA

Order the manual at mid-west-tech.com >

Table of Contents

Section 1 – PLATFORM 7

1.1 Chain Entrance 8
1.2 Lower Platform 9
1.3 Upper Platform 10
1.4 Railings 12
1.5 Gate 13
1.6 Saloon Gate 15
1.7 Platform Control Console 16
1.8 Controller 18
1.9 Platform Limit Switches 20
1.10 Platform Control Cable 22

Section 2 – MAST - SJ12 23

2.1 Mast 1 - SJ12 24
2.2 Mast 2 - SJ12 26
2.3 Mast 3 - SJ12 28
2.4 Mast 4 - SJ12 30
2.5 Chain - SJ12 32
2.6 Mast Lift Cylinder Assembly - SJ12 33
2.7 Lift Cylinder - SJ12 34
2.8 Mast Electrical Assembly - SJ12 36

Section 3 – MAST - SJ16 39

3.1 Mast 1 - SJ16 40
3.2 Mast 2 - SJ16 42
3.3 Mast 3 - SJ16 44
3.4 Mast 4 - SJ16 46
3.5 Mast 5 - SJ16 48
3.6 Chain - SJ16 50
3.7 Mast Lift Cylinder Assembly - SJ16 51
3.8 Lift Cylinder - SJ16 52
3.9 Mast Electrical - SJ16 54

Section 4 – BASE 57

4.1 Base Cover 58
4.2 Base 60
4.3 Pothole Protection 62
4.4 Pothole Cylinder 64
4.5 Clevis 65
4.6 Wheel Motor and Brake 66
4.7 Drive and Steer Assembly 68

MidWestTech | Skyjack SJ12, SJ16 Vertical Mast Lift Parts Manual | Publication 161862AHA

Order the manual at mid-west-tech.com >

Table of Contents

4.8 Steer Cylinder 70
4.9 Wheels 71
4.10 Main Manifold 72
4.11 Brake Manifold 74
4.12 Powerpack 76
4.13 Hydraulic Hoses 78
4.14 Base Electrical Components 80
4.15 Base Control Centre 82
4.16 Terminal Strip 84
4.17 Circuit Breaker and Horn 85
4.18 Main Harness 86
4.19 Batteries 88
4.20 Battery Charger 90

Section 5 – ATTACHMENTS & OPTIONS 91

5.1 Pipe Rack 92
5.2 Tool Tray 94
5.3 Tube Caddy 95
5.4 Flashing Light 96
5.5 Charger/Inverter 98
5.6 Aluminum Control Box Guard 99
5.7 Biodegradeable Hydraulic Oil 100

Section 6 – LABELS 101

6.1 Label Kits 102
6.2 Rear View 103
6.3 Left Side 104
6.4 Front 105
6.5 Right Side 106
6.6 Platform Control Console 107
6.7 Base View 1 108
6.8 Base View 2 109

Section 7 – TABLES 111

7.1 Standard Hose Numbering System 112
7.2 Fluids Table 114

MidWestTech | Skyjack SJ12, SJ16 Vertical Mast Lift Parts Manual | Publication 161862AHA

Order the manual at mid-west-tech.com >

Index No.	Skyjack Part No.	Qty.	Description
			NOTE: Part Numbers followed by a "DG" indicate dark grey painted parts.
A	209169	1	CONTROL CONSOLE
B	161747	1	CONTROL CONSOLE, ALUMINUM GUARD
C	232755	1	CONTROL CONSOLE, ALUMINUM GUARD - SGLE
-	151469	1	• CONTROL BOX
1	147051	1	• • HEAD, Emergency stop
2	147058	1	• • HEAD, Pushbutton (Horn)
3	122093	1	• • INDICATOR, Battery charge
4	156884	1	• • PLATE, Control Box (Top)
5	111181	1	• • GUARD, Switch
6	144016	1	• • SEAL, Bushing
7	116382	1	• • SWITCH, Toggle, 4NT1-1
8	160355	1	• PLATE, Control Box, A
	147372	1	• PLATE, Control Box, B, C
9	103632	9	• SCREW, Hex head self tapping (1/4"-14 x 3/4")
10	103957	1	• SCREW, Round head machine (#8-32 x 1/2")
11	112249	1	• WASHER, Lock (#8)
12	103986	1	• NUT, Hex head (#8-32)
13	102956	2	• PLUG (7/8")
14	(Ref.)	-	• CONTROLLER ASSEMBLY
			(For components, refer to Section 1.8 Controller)
	151467	1	• WIRING, Control box
	156553	1	• • WIRING, Sub-Assy Control box
15	-	-	• • • SWITCH, Horn
	147056	1	• • • • LATCH
	147054	1	• • • • BLOCK, Contact (N.O.)
16	-	-	• • • SWITCH, Emergency stop
	147056	1	• • • • LATCH
	147053	2	• • • • BLOCK, Contact (N.C.)
	147061	1	• • • • LED BLOCK, 24V (Red)
17	116993	-	• • • HOUSING, Male connector (9 pin)
18	(Ref.)	1	• • CONTROL CABLE ASSEMBLY (16 pin)
			(For components, refer to Section 1.10 Platform Control Cable)
19	160262	1	• TUBE, Control Box, A
	161240	1	• PLATE, Guard - Control Box, B, C
20	157759	AR	• RIVET, Pop - 0.188" x 0.565" STL SM FLG DM HD O-END
21	194731	30"	• EDGE MOLDING, Control Box, B, C
22	220498	1	• PUSHBUTTON, SGLE, B, C
23	220559	1	• INSTRUCTIONS, SGLE Install (Not shown), B, C
24	156923	1	• PLATE, Control Box - Top
L	*(Ref.)*	1	• LABELS
			(For components, refer to Section 6.6 Platform Control Console)

MidWestTech | Skyjack SJ12, SJ16 Vertical Mast Lift Parts Manual | Publication 161862AHA Order the manual at mid-west-tech.com >

Index No.	Skyjack Part No.	Qty.	Description
			NOTE: Part Numbers followed by a "DG" indicate dark grey painted parts.
A	158149DG	1	DRIVE/STEER ASSEMBLY (ANSI/CSA)
B	158316DG	1	DRIVE/STEER ASSEMBLY (CE & KC)
1	107912	4	• HUB, Wheel
2	103199	20	• BOLT, Wheel (1/2"-20 x 1.5625")
3	151246DG	1	• WELDMENT, Motor (Left hand)
4	151326	2	• PIN, Steer
5	151650	2	• RETAINER, Washer
6	110853	4	• SCREW, Flat head cap (1/4"-20 x 5/8", Grade 5)
7	100050	2	• BUSHING, Fibreglide
8	151260DG	1	• WELDMENT, Steer arm (Left-hand) - S/N 14 003 535 and below
	151249DG	1	• WELDMENT, Steer arm (Left-hand) - S/N 14 003 536 and above
9	107951	2	• SCREW, Hex socket shoulder (5/8" x 1.25")
10	107949	2	• NUT, Hex head jam (1/2"-13, Grade 5)
11	107143	2	• END, Rod
12	106450	2	• NUT, Hex head jam (3/4"-16, Grade 5)
13	(Ref.)	1	• CYLINDER, Steer
			(For components, refer to Section 4.8 Steer Cylinder)
14	103789	2	• WASHER, Int tooth lock (1")
15	107947	2	• NUT, Hex head jam (1"-14, Grade 5)
16	151259DG	1	• WELDMENT, Steer arm (Right hand - Control box side) - S/N 14 003 535 and below
	151249DG	1	• WELDMENT, Steer arm (Right-hand - Control box side) - S/N 14 003 536 and above
17	151247DG	1	• WELDMENT, Motor (Right-hand - Control box side)
18	132565	2	• CAP, Grease (GC5)\
19	(Ref.)	1	• WHEEL MOTOR AND BRAKE ASSEMBLY
			((For components, refer to Section 4.6 Wheel Motor and Brake)
20	(Ref.)	1	• POWERPACK ASSEMBLY
			(For components, refer to Section 4.12 Powerpack)

MidWestTech | Skyjack SJ12, SJ16 Vertical Mast Lift Parts Manual | Publication 161862AHA

Order the manual at mid-west-tech.com >

Index No.	Skyjack Part No.	Qty.	Description
			NOTE: Part Numbers followed by a "DG" indicate dark grey painted parts.
A	158744DG	1	BASE CONTROL CENTRE ASSEMBLY (ANSI/CSA & KC)
B	158746DG	1	BASE CONTROL CENTRE ASSEMBLY (CE)
1	158418DG	1	• LOWER CONTROLS, A
	158419DG	1	• LOWER CONTROLS, B
	158420DG	1	• • WELDMENT, Controls face
2	147069	1	• • HEAD, Selector switch (Lower/Raise)
3	166015	1	• • SWITCH, Reworked selector, keyed, A
	166016	1	• • SWITCH, Reworked selector, keyed, B
4	147051	1	• • HEAD, Emergency stop
5	158728	1	• LOWER CONTROL BOX ASSEMBLY
	151551	1	• • WELDMENT, Controls deck
6	103962	10	• • SCREW, Round head machine (#10-32 x 1/2")
7	108589	8	• • RELAY, Sealed (24V)
8	104694	10	• • WASHER, Flat (#10)
9	104185	10	• • WASHER, Lock (#10)
10	104003	10	• • NUT, Hex head (#10-32)
11	103057	1	• • BEEPER, Slow pulsing (24VDC)
12	(Ref.)	1	• • TERMINAL STRIP ASSEMBLY
			(For components, refer to Section 4.16 Terminal Strip)
13	-	1	• • SWITCH, Selector (Lower/Raise)
	147056	1	• • • LATCH
	147054	2	• • • BLOCK, Contact (N.O.)
14	-	1	• • SWITCH, Selector key (Off/Platform/Base)
	147056	1	• • • LATCH
	147054	1	• • • BLOCK, Contact (N.O.)
	147053	2	• • • BLOCK, Contact (N.C.)
	104466	1	• • • KEY, Base control
15	-	1	• • SWITCH, Emergency stop
	147056	1	• • • LATCH
	147053	1	• • • BLOCK, Contact (N.C.)
	147061	1	• • • LED BLOCK, 24V (Red)
16	151551DG	1	• • WELDMENT, Controls deck
17	(Ref.)	1	• • HARNESS, Main
			(For components, refer to Section 4.18 Main Harness)
18	103964	8	• SCREW, Round head machine (#10-32 x 1/4")
19	151558DG	1	• COVER, Lower controls

MidWestTech | Skyjack SJ12, SJ16 Vertical Mast Lift Parts Manual | Publication 161862AHA

Order the manual at mid-west-tech.com >