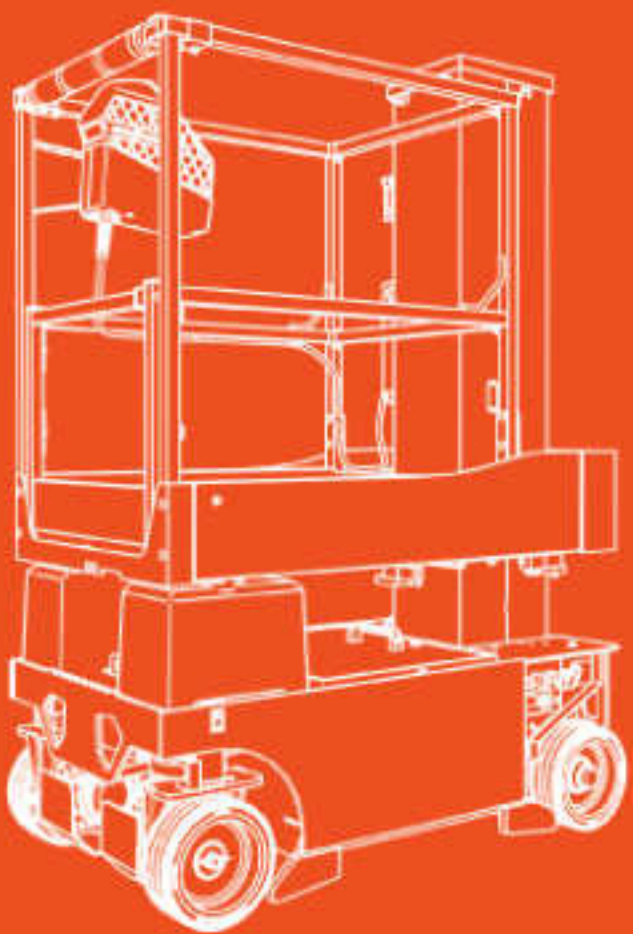
SKYJACK

PARTS MANUAL

SJ20

VERTICAL MAST LIFTS



238885ACA
June 2024
ANSI/CSA

MidWestTech | Skyjack SJ20 Vertical Mast Lift Parts Manual | Publication 238885ACA

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

Table of Contents

Foreword 5

General 5
Parts Ordering Information 5
Method of Listing 5
Quantities 5
How To Order Repair Parts 5
Recommended Service Parts 6

Section 1 – Platform 9

1.1 Upper Platform 10
1.2 Lower Platform 12
1.3 Railings - Half Gate 14
1.4 Railings - Saloon Gate 15
1.5 Half Gate 16
1.6 Saloon Gate 17
1.7 Platform Control Console 18
1.8 Joystick 20
1.9 Platform Control Cable 22
1.10 Platform Control Cable - SGLE 24
1.11 Platform Electrical Group 26
1.12 Platform Limit Switches 28

Section 2 – Mast 29

2.1 Mast 1 - SJ20 30
2.2 Mast 2 - SJ20 32
2.3 Mast 3 - SJ20 34
2.4 Mast 4 - SJ20 36
2.5 Mast 5 - SJ20 38
2.6 Mast Cylinder Group 40
2.7 Lift Cylinder 42
2.8 Mast Electrical 44
2.9 Mast Control Cable 46

Section 3 – Base 47

3.1 Chassis 48
3.2 Drive and Steer Group 50
3.3 Steer Cylinder 52
3.4 Motor 53

MidWestTech | Skyjack SJ20 Vertical Mast Lift Parts Manual | Publication 238885ACA Order the manual at mid-west-tech.com >

Recommended Service Parts

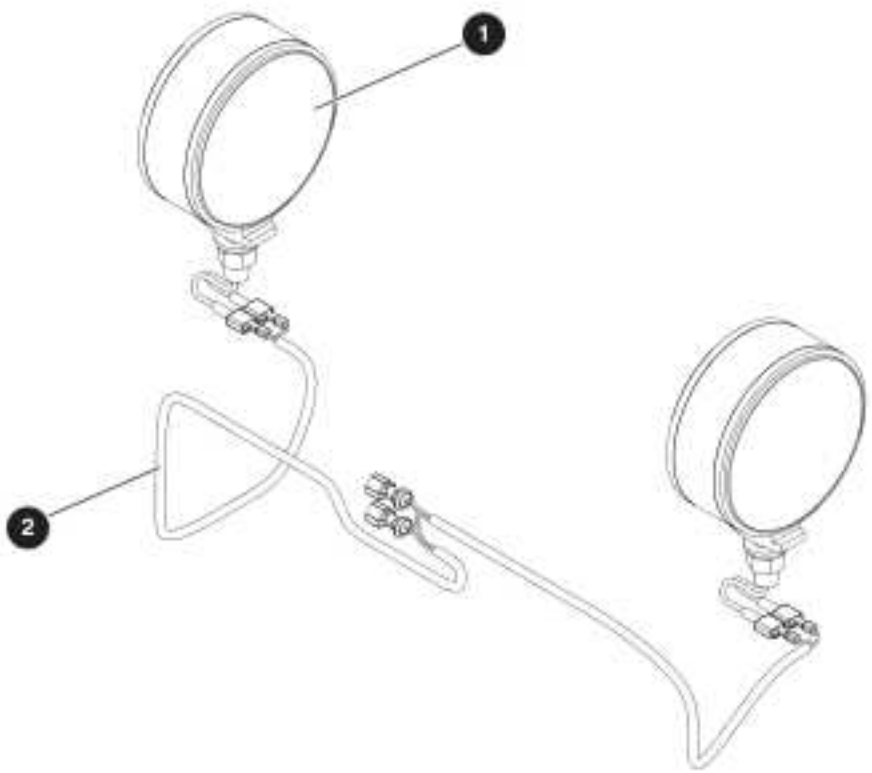
Description	Year 1 Qty	Year 2 Qty	Year 3 Qty	Skyjack Part No.
Mechanical				
Platform Roller	0	0	4	151677
Wear Pad (Thick and Short)	0	6/8	6/8	158087
Wear Pad (Thin and Long)	0	4/6	4/6	159398
Wear Pad (Thin and Short)	0	6/8	6/8	157763
Wear Pad (Thick and Long)	0	4/6	4/6	159399
Pin Assembly - large loop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

MidWestTech | Skyjack SJ20 Vertical Mast Lift Parts Manual | Publication 238885ACA
Order the manual at mid-west-tech.com >

Index No.	Skyjack Part No.	Qty.	Description
-	234099	1	BASE ELECTRICAL GROUP
1	146475	1	• SWITCH, Solenoid - Contactor
2	(Ref.)	1	• CONTROLLER ASM, SJ20
			(For components, refer to Section 3.8 Controller)
3	103996	4	• WASHER, Flat (5/16")
4	103887	4	• BOLT, Hex head (5/16"-18 x 3/4" Gr. 5)
5	103995	4	• WASHER, Flat (1/4")
6	156844	2	• NUT, Hex (5/16"-24 Gr. 5)
7	104003	2	• NUT, Hex (#10-32)
8	103958	2	• SCREW, Round head machine (#8-32 x 3/4")
9	(Ref.)	1	• LIMIT SWITCH ASM, SJ20
			(For components, refer to Section 3.9 Base)
10	234155	1	• HARNESS, Main - ZAPI A Connector
11	234156	1	• HARNESS, Main - ZAPI B Connector
12	234242	1	• CABLE ASM, Base control-side motor
	234241	3	• • WELDING CABLE, #8 GA (5/16" X 44" X 1/4")
	102892	3	• • TIEWRAP, Cable - black (5-3/8")
13	234243	1	• CABLE ASM, Charger-side motor
	234241	3	• • WELDING CABLE, #8 GA (5/16" X 44" X 1/4")
	102892	3	• • TIEWRAP, Cable - black (5-3/8")
14	117408	2	• BOOT, Battery - Red
15	117696	12	• BOOT, Terminal - Rubber (#4 AWG)
16	(Ref.)	1	• BASE CONTROL
			(For components, refer to Section 3.10 Base)
17	103857	2	• BOLT, Hex head zinc (1/4"-20 x 1" Gr. 5)
18	234789	1	• BRACKET, Tilt sensor
19	234997	1	• SENSOR, Tilt switch (1.5 x 2.5)
20	104185	2	• WASHER, Lock (#10)
21	103960	2	• SCREW, Round head machine (10-24 x 1/2")
22	103892	2	• BOLT, Hex head (1/4"-20 x 5/8" G5)

MidWestTech | Skyjack SJ20 Vertical Mast Lift Parts Manual | Publication 238885ACA Order the manual at mid-west-tech.com >

5.6 Dual Flashing Light Kit



M23468TAA

Index No.	Skyjack Part No.	Qty.	Description
-	234687	1	DUAL FLASHING LIGHT FIELD KIT
1	216142	2	• LAMP, LED - Amber
	212730	1	• • LED LAMP
	(Ref.)	1	• • WASHER, Flat
	(Ref.)	1	• • WASHER, Lock
	(Ref.)	1	• • NUT
2	234263	1	• HARNESS, Dual Flashing Light
3	234689	1	• INSTRUCTIONS, FLASHING LIGHTS - SJ20 (Not shown)

MidWestTech | Skyjack SJ20 Vertical Mast Lift Parts Manual | Publication 238885ACA
Order the manual at mid-west-tech.com >