MODELS | SJIII 3215 SJIII 3219



Service Manual

SJIII Compact Series

Part No. 143909AF October 2025

SKYJACK

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Table 2.3b Maximum Platform Capacities (Evenly Distributed) (CE)

MODEL	Manual Extension Platform				Powered Extension Platform				Maximum Wind Speed	Tilt Cutout Setting
	Total Capacity		Extension Capacity		Total Capacity		Extension Capacity			
3215	227 kg	2 Persons	113 kg	1 Person	N/A				No Wind	1.5 x 3.5
3219	227 kg	2 Persons	113 kg	1 Person	N/A				No Wind	1.5 x 3.5
3220	408 kg	2 Persons			363 kg	2 Persons			No Wind	1.5 x 3.5
3226	227 kg	2 Persons			N/A				No Wind	1.5 x 3.5
4620	590 kg	3 Persons	136 kg	1 Person	590 kg	3 Persons	136 kg	1 Person	12.5 m/s	1.5 x 3.5
4626	454 kg	3 Persons	136 kg	1 Person	454 kg	3 Persons	136 kg	1 Person	12.5 m/s	1.5 x 3.5
4632	317 kg	2 Persons	113 kg	1 Person	N/A				10.8 m/s	1.5 x 3.5

603SAJ-CE-R-S

NOTE: Overall Capacity - Occupants and materials not to exceed rated load.

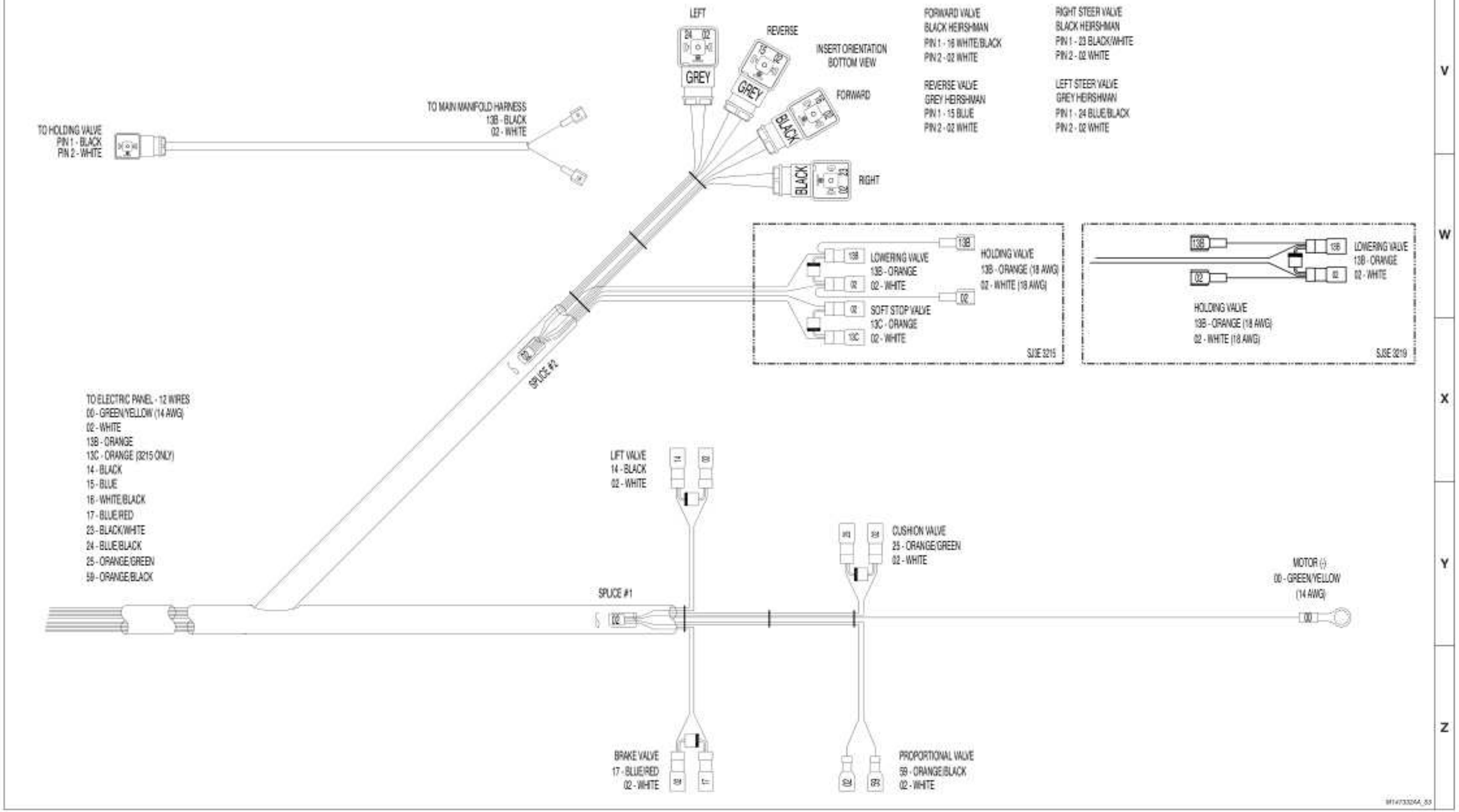
BEAUFORT SCALE	Wind Speed				Ground Conditions
	m/s	km/h	ft/s	mph	
3	3.4 – 5.4	12.5 – 19.4	11.5 – 17.75	5 – 12.0	Papers and thin branches move, flags wave
4	5.4 – 8.0	19.4 – 28.8	17.75 – 26.25	12.0 – 18	Dust is raised, paper whirls up, and small branches sway.
5	8.0 – 10.8	28.8 – 38.9	26.25 – 35.5	18 – 24.25	Shrubs with leaves start swaying. Wave crests are apparent in ponds or swamps.
6	10.8 – 13.9	38.9 – 50.0	35.5 – 45.5	24.5 – 31	Tree branches move. Power lines whistle. It is difficult to open an umbrella.
7	13.9 – 17.2	50.0 – 61.9	45.5 – 65.5	31 – 38.5	Whole trees sway. It is difficult to walk against the wind.

603SBAC

WARNING

The aerial is equipped with a Load Sensing System. Do not exceed the rated capacity of the aerial platform. Failure to avoid this will prevent operation of all normal controls/functions of the aerial platform. To resume normal operation remove the additional loads.

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Introduction

The following pages contain a table of Troubleshooting Information for locating and correcting most service trouble which can develop. Careful and accurate analysis of the systems listed in the table of Troubleshooting Information will localize the trouble more quickly than any other method. This manual cannot cover all possible troubles and deficiencies that may occur. If a specific trouble is not listed, isolate the major component in which the trouble occurs, isolate whether the problem is electrical or hydraulic, and then isolate and correct the specific problem.

The content of this section is separated into "probable cause" and "remedy." The information preceded by a number represents the "probable cause." The following line, noted by a dash represents the "remedy" to the "probable cause" directly above it. See example below for clarification.

1. Probable Cause
   - Remedy

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Table 2.2a Floor Loading Pressure (ANSI/CSA)

MODEL		Total Aerial Platform Weight		Total Aerial Platform Load					
				Wheel		LCP**		OUP**	
		lb.	kg	lb.	kg	psi	KPa (kN/m²)	psf	KPa (kN/m²)
3215	min*	2400	1089	960	435	100	689.48	160	7.66
	max*	3000	1361	1200	544	110	758.42	200	9.58
3219	min*	2580	1170	1032	468	100	689.48	170	8.14
	max*	3130	1420	1252	568	110	758.42	210	10.05
3220	min*	3400	1542	1396	633	110	758.42	175	8.38
	max*	4299	1950	1936	878	130	896.32	245	11.73
3226	min*	4100	1860	1644	746	120	827.37	210	10.05
	max*	4610	2091	1844	836	130	896.32	235	11.25
4620	min*	4100	1860	1640	744	191	1316.90	146	6.99
	max*	5620	2549	2250	1021	222	1530.64	199	9.53
4626	min*	4700	2132	1880	853	206	1420.32	168	8.04
	max*	5920	2685	2370	1075	224	1544.43	210	10.05
4632	min*	5075	2302	2030	921	208	1434.11	180	8.62
	max*	5775	2620	2310	1048	223	1537.53	205	9.82

60364AF-ANSI

* **min** - Total aerial platform weight with no options

max - Aerial platform weight + all options + full capacity

** **LCP - Locally Concentrated Pressure** is a measure of how hard the aerial platform presses on the areas in direct contact with the floor. The floor covering (tile, carpet, etc.) must be able to withstand more that the indicated values above.

OUP - Overall Uniform Pressure is a measure of the average load the aerial platform imparts on the whole surface directly underneath it. The structure of the operating surface (beams, etc.) must be able to withstand more than the indicated values above.

NOTE:

The **LCP** or **OUP** that an individual surface can withstand varies from structure to structure and is generally determined by the engineer or architect for that particular structure.

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Table 1.2 MAINTENANCE AND INSPECTION CHECKLIST

Serial Number: _____

Model: _____

Hourmeter Reading: _____ Name (Printed): _____

Date: _____

Time: _____ Signature: _____

Each item shall be inspected using the the appropriate section of the Skyjack operating manual.
As each item is inspected, write the apropriate grade in the box.

INSPECTION FREQUENCY

- ❑ DAILY
- ❑ FREQUENTLY
- ❑ ANNUALLY
- ❑ BI-ANNUALLY

P - PASS
F - FAIL
R - REPAIRED

Inspection Schedule	
Daily	A
Frequently*†	A + B
Annually†	A + B + C
Bi-annually†	A + B + C + D

Schedule		P	F	R
Schedule Maintenance Inspections				
Labels	A			
Limit Switches	A, B			
Entrance Side				
Main Power Disconnect Switch	A, B			
Base Control Switches	A, B			
Free-wheeling Valve Knob (Compacts - Front Side)	A, B			
Brakes	A, B, C			
AC Outlet Receptacle	A, B			
Ladder	A, B			
Battery Tray Side				
Pothole Protection Device	A, B			
Battery Tray	A, B			
Battery Charger	A, B			
Battery	A, B			
Steer Cylinder Assembly	A, B			
Wheel/Tire Assembly	A, B			
Tie Rod (Conventionals)	A, B			
Greasing Points	A, B, C			
Hydraulic/Electric Tray Side				
Pothole Protection Device	A, B			
Hydraulic Tank	A, B, C			
Hydraulic Oil	A, B, C			
Hydraulic Pump and Motor	A, B			
Electrical Panel	A, B			
Proportional and Main Manifolds	A, B			
Tilt Sensor - ANSI/CSA	A, B			
Load/Tilt Sensor - CE	A, B			
Emergency Lowering Access Rod (If Equipped)	A, B			

Schedule		P	F	R
Platform Assembly				
Lanyard Attachment Anchors	A, B			
AC Outlet on Platform	A, B			
Platform Control Console	A, B			
Manuals	A, B			
Powered Extension Control Console (If Equipped)	A, B			
Lift Mechanism				
Maintenance Support	A, B			
Scissor Assembly	A, B			
Scissor Bumpers	A, B			
Rollers	A, B			
Lift Cylinder(s)	A, B			
Function Tests				
Test Main Power Disconnect Switch	A, B			
Base Control Console				
Test Base Emergency Stop	A, B			
Test Off/Platform/Base	A, B			
Test Lower/Neutral/Raise Switch	A, B			
Test Emergency Lowering	A, B			
Test Free-wheeling	A, B			
Platform Control Console				
Test Platform Emergency Stop	A, B			
Test Enable Trigger Switch	A, B			
Test Steering	A, B			
Test Driving	A, B			
Test Brakes	A, B			
Test Platform Raising/Lowering	A, B			
Test Lowering Warning - CE	A, B			
Test Horn	A, B			
Test Pothole Sensor	A, B			
Test Elevated Drive Speed	A, B			
Test Tilt Sensor - ANSI/CSA	A, B			

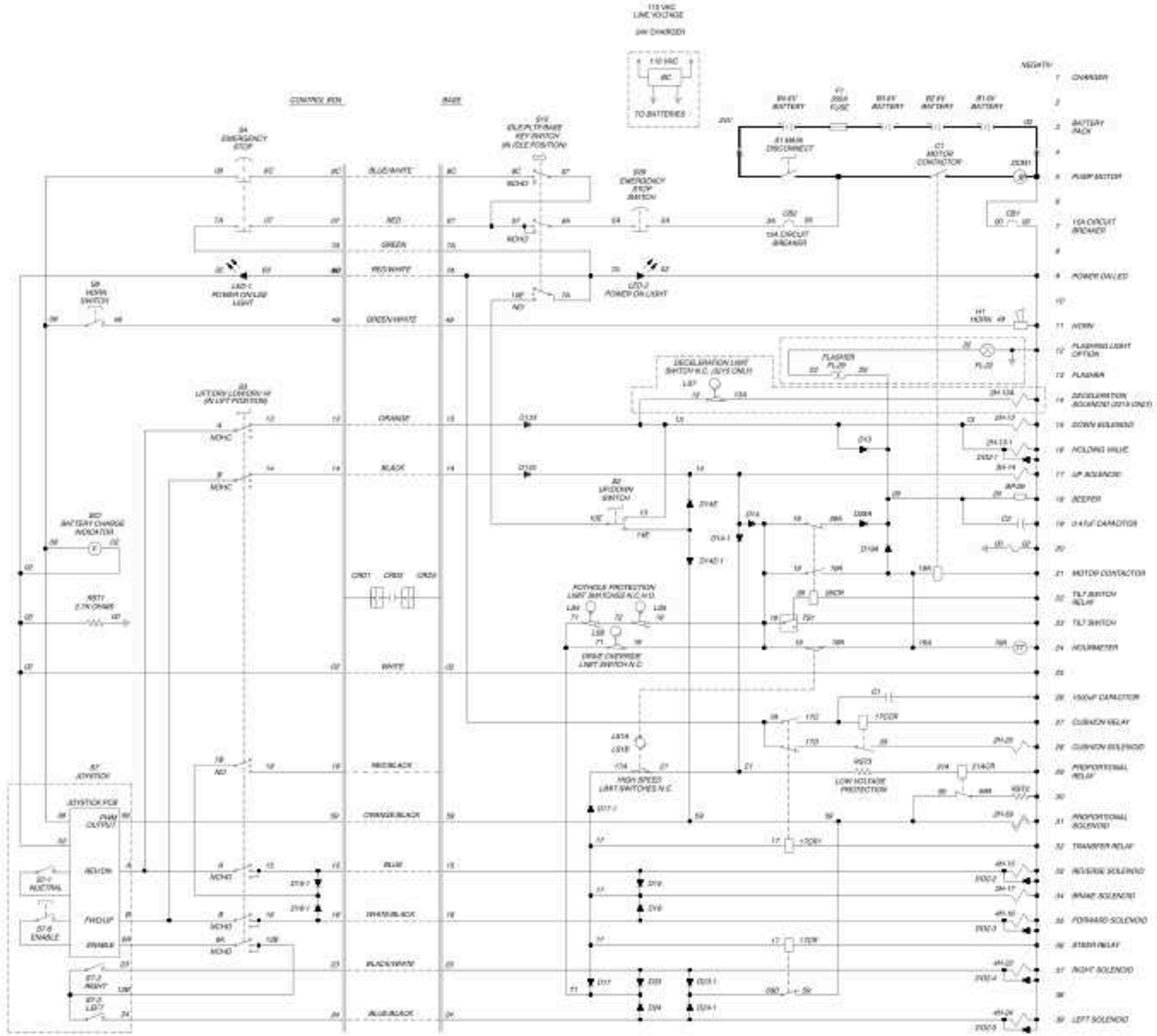
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A - Perform Visual and Daily Maintenance Inspections & Functions Test. Refer to Section 2.7 of the Operating Manual.
B - Perform Scheduled Maintenance Inspection every three months or 150 hrs. Refer to Section 1 of this manual.
C - Perform Scheduled Maintenance Inspection every year. Refer to Section 1 of this manual.
D - Perform Scheduled Maintenance Inspection every 2 years. Refer to Section 1 of this manual.
* Perform scheduled inspection every three months or 150 hours.
† - Refer to Skyjack's website @ www.skyjack.com for latest service bulletins porior to performing quarterly or yearly inspection.

Note: Make a copy of this page or visit the Skyjack web site:www.skyjack.com for a printable copy.

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Serial Breakdown Reference Chart	
Model	Serial Number
SJ3 3215	10000610 & below
SJ3 3219	22020984 & below



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