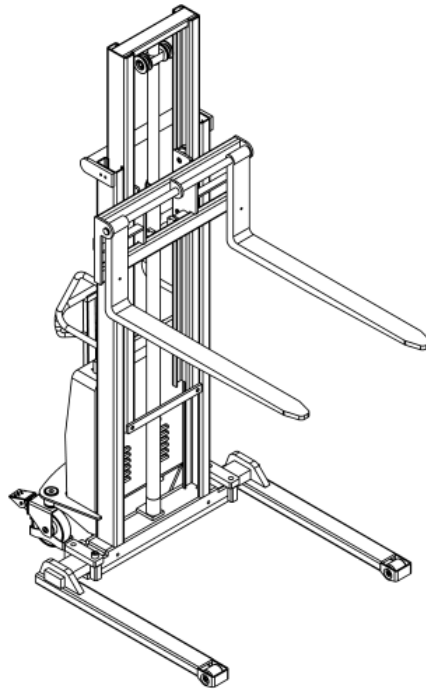


# The Specification

## EA15 Series Semi-Electric Stacker

**Note:** Before using must read this manual and the various warning label!



**EKKO Material Handling Equipment Manufacturing, Inc.**

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## Preface

Welcome to use our semi-electric stacker EA series. The stacker is made of high quality steel and sped mast and was designed to give a durable, reliable and easy to use product. For your safety and correct operation, please carefully read this instruction book and warnings on the stacker before using it.

Note: All the information reported herein is based on data available at the moment of printing. We reserve the right to modify our own products at any moment without notice and incurring in any sanction. So, it is suggested to always verify possible updates.

### 1. Structural data form

Model		EA15A (EA15B)
Load Capacity	(lb)	3300
Load Capacity on Max. height	(lb)	1980
Lifting height Max.	(in)	119.4
Load center distance	(in)	22
Fork length	(in)	48
Single fork width	(in)	3.94
Overall fork width	(in)	8-35
Lowered fork height	(in)	2..35
Fixed leg length	(in)	36.4
Fixed leg width, single	(in)	3.94
Width between fixed legs	(in)	35.4-59
Turning radius	(in)	53.2
Overall length	(in)	74
Overall width max	(in)	59
Extended mast height	(in)	140.5
Lowered mast height	(in)	84.5
Battery Voltage	(in)	12V/120AH, 10-12V
Charger		12V/15A
Lift Motor		DC, 12V/1.5KW
Service Weight	(lb)	898

## **2. Safety guidance**

- 2.1 Operator should read all warning signs and instructions here and on the stacker before using it.
- 2.2 Do not operate a stacker unless you are familiar with it and have been trained or authorized to do so.
- 2.3 Do not operate a stacker unless you have checked its condition. Give special attention to the chain, the wheels, the handle, the guide frame, the pilot wheel, the mast, battery, etc.
- 2.4 Do not use on a slopping ground or on a barbaric or explosive danger environment.
- 2.5 Do not take up any people on the forks.
- 2.6 When forks lifting, forbid anyone to stand under the forks or pass through the forks.
- 2.7 The operator had better take on gloves for labor protecting.
- 2.8 Do not move the stacker when the goods are lifted to the height more than 11.8 in.
- 2.9 When the goods have been transported or lifted, all people should be away from the forks for 23.6 in.
- 2.10 The weight of goods should be distributed on the two forks, do not use only one fork. The center of gravity of goods should be in the center of two forks.
- 2.11 Do not load over maximum capacity.
- 2.12 Before using or charging it, check cell liquid, if not enough, full it with distilled water.
- 2.13 Charging should be in dry and ventilated location, and far away from the fire.
- 2.14 Keeping the forks in the lowest position if not using.
- 2.15 At other special condition or place, the operator should be carefully to operate the stacker.

### 3. Maintenance

#### 3.1 Hydraulic oil

Please check the oil level every six months. The oil can be hydraulic oil: ISO VG32, its viscosity should be 32cSt at 40°C, total volume is about 4.0lt.

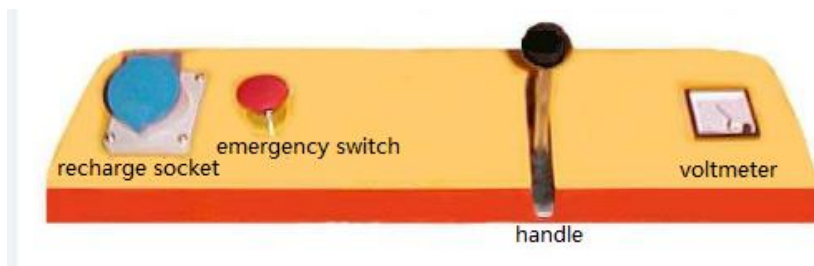
#### 3.2 Daily check and maintenance

It is necessary to check the stacker daily. Special attention should be paid to the wheels, the axles, as thread, rags, etc., it may block the wheels, the fork and the mast, the chain, the battery should be checked, too. The forks should be unloaded and lowered in the lowest position when the job is over.

#### 3.3 Lubrication

Use motor oil or grease to lubricate all movable parts.

### 4. Control panel



Pic.1

#### 4.1 Urgent switch

When you press down this switch, it will switch off the power, and then you turn it clockwise, it will switch on the power.

#### 4.2 Voltage meter

It indicates the voltage of battery. When its voltage is less than 10 Volt, you should not use this stacker, you must charge it.

#### 4.3 Control stick

This stick controls the forks to lower or lift.

#### 4.4 Charger socket

## 5. Troubles shooting

No	Trouble	Clause	Fixing Methods
1	The forks can't be lift the max. height.	-The hydraulic oil is not enough.	-Pour in the oil.
2	The forks cannot be lifted up. (Motor is rotary)	-Without hydraulic oil. -The oil has impurities.	-Fill in the oil. -Change the oil.
3	The motor cannot run.	-The urgent switch is pressed down, cut off the power. -The voltage is too lower. -The connectors of electrical wire is loose. -The contact of DC motor is bad.	-Turn it clockwise, switch on the power -Charge it. -Turn it firm. -Replace with new one.
4	The forks cannot be descended.	-The piston rod or mast is deformed resulting from partial loading slanting to one side or over-loading. -The fork was kept in the high position for long time with piston rod bared to arise in rusting and jamming of the rod. -The release valve of pump is not opened.	- Replace with new one.  -Keeping the fork in the lowest position if not using and pay more attention to lubricate the rod.  -Check it, if damaged, replace with new one.
5	Leaks	-Sealing parts worn or damaged. -Some part cracked or worn into small.	-Replace with the new one. -Replace with the new one.
6	The fork descends without the release valve worked.	-The impurities in the oil cause the release valve to be unable to close tight. -Sealing parts worn or damaged. -The release valve is damaged.	-Replace with new oil.  -Replace with the new one. -Replace with the new one.
7	Battery cannot be charged	-Battery is bad. -The charging plug is loose.	- Replace with the new one. - Turn it firm.

**Note: Without authorization or training, it is strictly prohibited to repair!**

## 6. Parts List

No.	Code	Name	Specification	Quantity
1	GB/T 818-2000	Cross recess pan head screw	M6×20	14
2	EA10.0-6	Guard clamp		6
3	EA1016.0-4	Protective cover		1
4	EA10.9-2	Electrical cover		1
5	GB/T 96.2-2002	Large (big) plain washer	φ6	6
6	GB 2674-86	Socket button head screws	M10×25	2
7	EA10.4-3	Cover		2
8	GB/T 276-94	Deep groove ball bearing	6205	8
9	GB/T 297-94	Tapered roller bearing	30205	2
10	GB/T 97.1-2002	Plain washer	φ24	3
11	EA10.6.1	Wheel frame welded parts of driven pulley		1
12	EA10.4.1	Steering handle		1
13	EA10.4-1	Pin roll		1
14	GB 894.1-86	External circlip	φ10	4
15	GB 894.1-86	External circlip	φ12	3
16	EA 10.4-2	Connecting shaft		1
17	EA10.4-6	Spacer bush		2
18	EA10.4-7	Gas spring		1
19	EA10.4-4	Gas spring shaft		1
20	EA10.5-7	The push rod screw		1
21	GB_T 2084-94	Cylindroid helical-coil compression spring		1
22	EA10.5-4	Skate brake		1
23	EA10.5-8	CAM pedal		1
24	EA10.5-3	Pin roll		1
25	GB/T 70.1-2000	Hexagon socket cap screws	M12×100	2
26	EA10.5.2	Nylon wheel		2
27	EA10.5-1	Bushing		2
28	GB/T 276-94	Deep groove ball bearing	6204	10
29	EA10.5-2	Axle sleeve		4
30	GB/T 93-1987	Spring washer	φ12	2
31	GB/T 6170-2000	Hex nut	M12	2
32	EA10.5.1	The brake wheel frame welded pieces		1
33	ISO08A	Chain		2
34	EA10.5-5	Shaft filler washer		2
35	EA10.4-8	Steering chain		2
36	GB/T 1096-2003	General flat key	6×8	1
37	EA10.4.2B	The handle base		1
38	EA10.4-5	Steering shaft.		1
39	EA10.4.3-1,4	Draw-in bolt		4
40	GB/T 41-2000	Hex nut	M10	9
41	EA10.4.3-2	Strainer		2
42	GB/T 6176-2000	Hex nut	M18×1.5	1
43	GB/T 93-1987	Spring washer	φ10	7
44	GB/T 95-2002	Flat washer	φ10	5
45	CMB1-VB1303060-120	pump station		1
46	TY-01.36	Emergency Stop Switch		1

47	TY-01.42	SPN charging plug		1
48	GB/T 818-2000	cross recess pan head screw	M4×20	4
49	GB 923-88	acorn nut	M10	1
50	GB 923-88	acorn nut	M8	2
51	GB/T 41-2000	Hex nut	M8	2
52	GB/T 93-1987	Spring washer	φ8	2
53	GB/T 95-2002	Flat washer	φ8	2
54	EA10.16.1	The door frame component		1
55	GB/T 5781-2000	Hex bolt thread	M10×55	1
56	EA10.0-2	Oil cylinder hoop		1
57	EA10.8-6	Fuel pipe union		1
58	GB/T 70.1-2000	Hexagon socket cap screws	M10×25	2
59	GB/T 97.1-2002	Flat washer	φ10	2
60	TY-01.43	Coulombmeter		1
61	EA 10.9.1	Distribution box		1
62	12V120Ah	Battery		1
63	EA10.8-2T	Block cover		1
64	EA10.8-3	Bushing		1
65	EA10.8-4	Oil cylinder		1
66	GB/T3683-92	High-pressure oil pipe		1
67	ISO12A	Chain		2
68	EA10.0-1	Chain pull rod		2
69	GB/T 6170-2000	Hex nut	M14	4
70	GB/T 93-1987	Spring washer	φ14	2
71	EA10.2.2-3	Footstock		1
72	GB/T 70.1-2000	Hexagon socket cap screws	M8×16	1
73	EA10.2-5(G)	Chain wheel		2
74	GB 894.1-86	Circlip for shaft	φ20	6
75	GB 893.1-86	Circlip for hole	φ47	2
76	EA 10.8-1	Piston rod		1
77	12V20A	Charger		1
78	EA10.8-5	Piston rod		1
79	EA10.8-9	Detent ring		1
80	EA10.0-1	Front wheel		2
81	EA10.0-3	Small shaft		2
82	EA10.3.1	Fork frame welded		1
83	EA10.3.2-2	Adjust baffle plate		2
84	EA10.3.2	Fork		2
85	EA10.3-2	Major axis		1
86	GB 894.2-86	Circlip for shaft	φ32	2
87	GB/T 77-2000	Hexagon socket set screw with flat point	M12×20	4
88	EA10.3-1	Pallet rack roller		4
89	GB 894.2-86	Circlip for shaft	φ25	4
90	GB 893.2-86	Circlip for hole	φ52	4
91	EA10.3-3	Lateral pressure pad		4



