



SEMI- ELECTRIC HIGH-LIFT PALLET TRUCK



SAVE THESE INSTRUCTIONS

Please read and comply with these original instructions prior to the initial operation of your appliance and store them for later use or subsequent owners. Apart from the notes contained herein the general safety provisions and rules for the prevention of accidents of the legislator must be observed.

Warnings and notes that are attached on the appliance provide important notes for the safe operation.

Specification:

Model:	JEFELPT15SHL	Front load roller:	Ø80x70mm
Rated capacity:	1500kg	Steering wheel:	Ø180x50mm
Height of lowered fork:	85mm	Lifting time with rated load:	19s
Width across fork:	680mm	Lifting time without load:	11s
Fork width:	160mm	Battery:	12V/65Ah
Fork length:	1150mm/1200mm	Weight:	163kg

Assembly and Operation

1. Assembly after opening the package

- Take down Screw (33) and Pin(32) accordingly.
- Insert Handle (35) into the handle seat of the Cylinder unit (1900). Put in Pin (32). Screw in tightly with Screw (33). Put Adjusting Screw(37) (at the lower end of the Chain) into the slot of the Swing Rod (124).
- Push down the Handle (35), making the Pump Piston (108) downward meantime, to take away Block (60). Thus Handle (35) would be able to return to its upright position. Keep Pulling Handle (49) in the middle position (2). Operate the he Handle (35) up and down freely without any feeling of the blocking.
- Put the Pulling Handle (49) at the low position (1), operate Handle (35), the fork should be able to lift to its highest position; at the position (3), the fork should be able to lower to its bottom position steadily.
- Keep Pulling Handle (49) in low position, pump Handle (35) to lift the fork to its highest position. Take away part (212) and cover (215N). Place Battery (214) into battery tank in the front of Part (70). Connect Connector (241,242) to (+) (-) poles accordingly. Tighten the screws on the Connector. Place part (212) and Cover (215) in. Finally descend fork to its lowest position.
- Insert Wire and Plug (239) [under Handle (35)] into Socket (239) [under Pump Cover(226)]. Check all electric components such as wire, plug etc. to see if there is any loose, break and short-cut. If everything is normal, switch on the General Switch (236), check the Current Meter(240), the electricity should be over 3 lines. Below 3 lines (in the red light area), the battery should be charged.
- Check pipes in hydraulic system, see if there is any leakage or seeping.
- Place Pulling Handle (49) on Low Position (1), press Up-Button(238) intermittently, the fork should be able to ascend accordingly.
- Observe electrical parts and hydraulic system to see any abnormality. If every thing is normal, press Up-Button to lift the fork to its highest position. The Spacing should effect. Then place Pulling Handle (49) to its highest position (3), the fork should be able to descend smoothly.
- Repeat the above said procedures for 2 or 3 times to see if there is any abnormality and to drive air away from hydraulic system. The machine is ready for use.

2. Operation

- When the machine is ready for use, pull the machine on to a flat solid ground. Push forward and backward. The right and left wheel should swivel flexibly.
- Manual ascending: Place Pulling Handle (49) on Low Position (1), operate Handle (35), the fork should ascend smoothly. Place Pulling Handle (49) on Up Position(37), the fork should descend smoothly to lowest position. Release Pulling Handle (49) onto Mid-position (2), the fork should stop on any position, no descending.
- Electric ascending: Turn on Switch (236). Electricity indicator should be above red line, ie. Green light should be on. Place Pulling Handle (49) on Low Position (1). Press down Ascending Switch (238). The fork should ascend smoothly. Release the Ascending Switch (238), the fork should stop on any position no descend. Place Pulling Handle (49) on Up Position (3), the fork should descending smoothly. Release the Pulling Handle (49) to Mid-position, the fork can stop at any position.
- This machine is equipped with safety valve to prevent overload. Neither Manual ascending nor Electrical ascending can ascend under overload.
- After use, turn off Switch (236) to cut off electricity. The electricity meter turns off.
- When ascending speed remarkably slows down while no green light is on in Electricity Meter (240), The Battery (214) should be recharged. Put the Input Plug on the recharge(218N) into the electricity socket Switch on. The recharging begins automatically. (Red light on). When the electricity is full, the green light in recharge turns on. The indicator in electricity meter shows between 8 – 10 lines. The recharging usually lasts 10 – 12 hours

Problems maintenance and adjustment

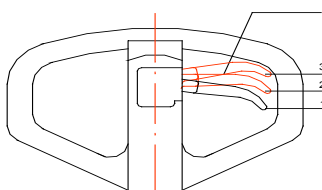
1. Troubleshooting

Item	Symptom	Possible cause	Suggested action
1	Fork can not ascend to highest position	Not enough oil	Fill oil (follow the way in No.3, Fig 3)
2	Fork does not ascend while operate the handle	1) Pulling Handle (49) is not in right position 2) Air in hydraulic system	1) Adjust according the way in No.2, Fig 2) 2) To operate the machine up-down to its full range 1-2 times with no load by manual or electrical operation
3	Fork can not descend	1) Pulling Handle (49) is not in right position 2) Fork or other parts are damaged 3) Blocked by foreign object	1) Adjust by following the way in No.2 and Fig 2) 2) Replace damaged parts 3) Take away foreign object
4	Fork does not ascend when press ascending switch	1) Pulling Handle (49) is not in right position 2) Switch is broken 3) Fuse melt down 4) Hydraulic pump does not work 5) Electric-magnetic switch is broken	1) Adjust following the way in No.2 and Fig 2) 2) Replace switch 3) Replace fuse. (F ₁ 206, F ₂ 207) 4) Check motor 5) Check electric-magnetic switch
5	Motor does not work	1) Motor is broken 2) Connector and plug-socket are loose 3) Battery is worn out 4) Fuse melt down	1) Check or replace motor 2) Check all connectors 3) Recharge battery 4) Check fuse (F ₁ , F ₂)
6	Electricity in batter is not enough	1) Recharge time is not enough 2) battery is broken	1) continue recharging to 12 – 14lines 2) Fill in battery liquid or replace battery
7	Seeping oil in piston and pinion	Seals are broken	Replace seals (158) (105)

2. Adjusting position got pulling handle.

1) Function of three positions

Position 1: ascending the fork
Position 2: neutral
Position 3: descending the fork



Release Lever (No.83)

Position 3
Position 2
Position 1

2) Adjusting: (Fig 2)

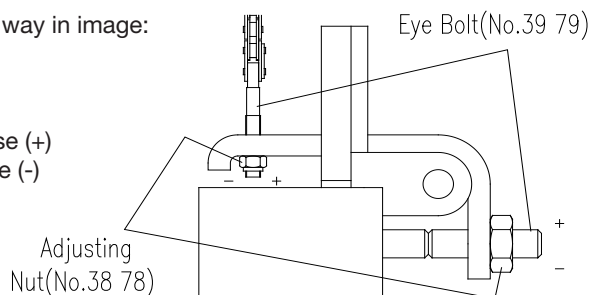
Adjusting Nut (38 78) if Pulling Handle's position is wrong by following the way in image:

Position

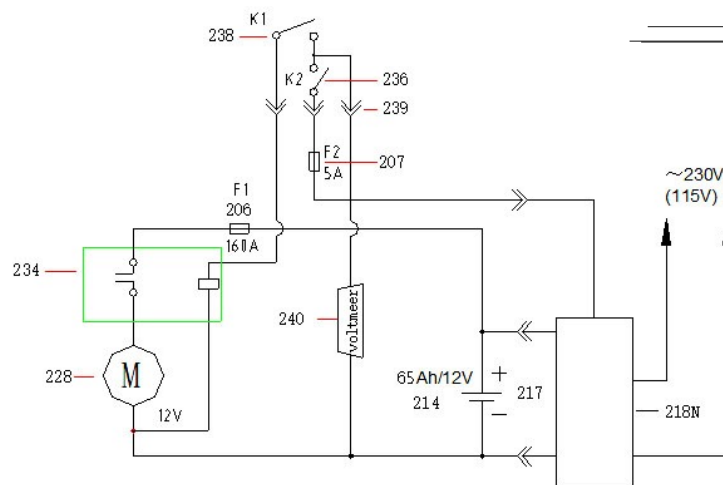
On Position 3, fork does not descend
On Position 1, fork does not ascend
On Position 2, not neutral

Adjusting

Turn Nut upward anticlockwise (+)
Turn Nut downward clockwise (-)
Adjusting Nut up and down



Low down the fork to it lowest position. Turn loose Oiling Screw(160). Fill in clean hydraulic oil (see Attention 8 for technical requirement). Then turn Oiling Screw (160) tight. Press ascending Switch (238), check if fork can ascend to its highest position. If not, repeat above procedure. Oil filled should just be enough for fork to ascend to highest position. Don't fill the hydraulic oil up to filling moth once.



POWER DIAGRAM

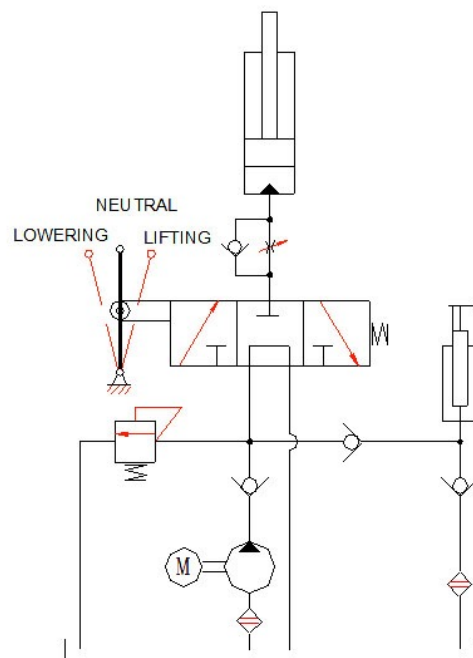
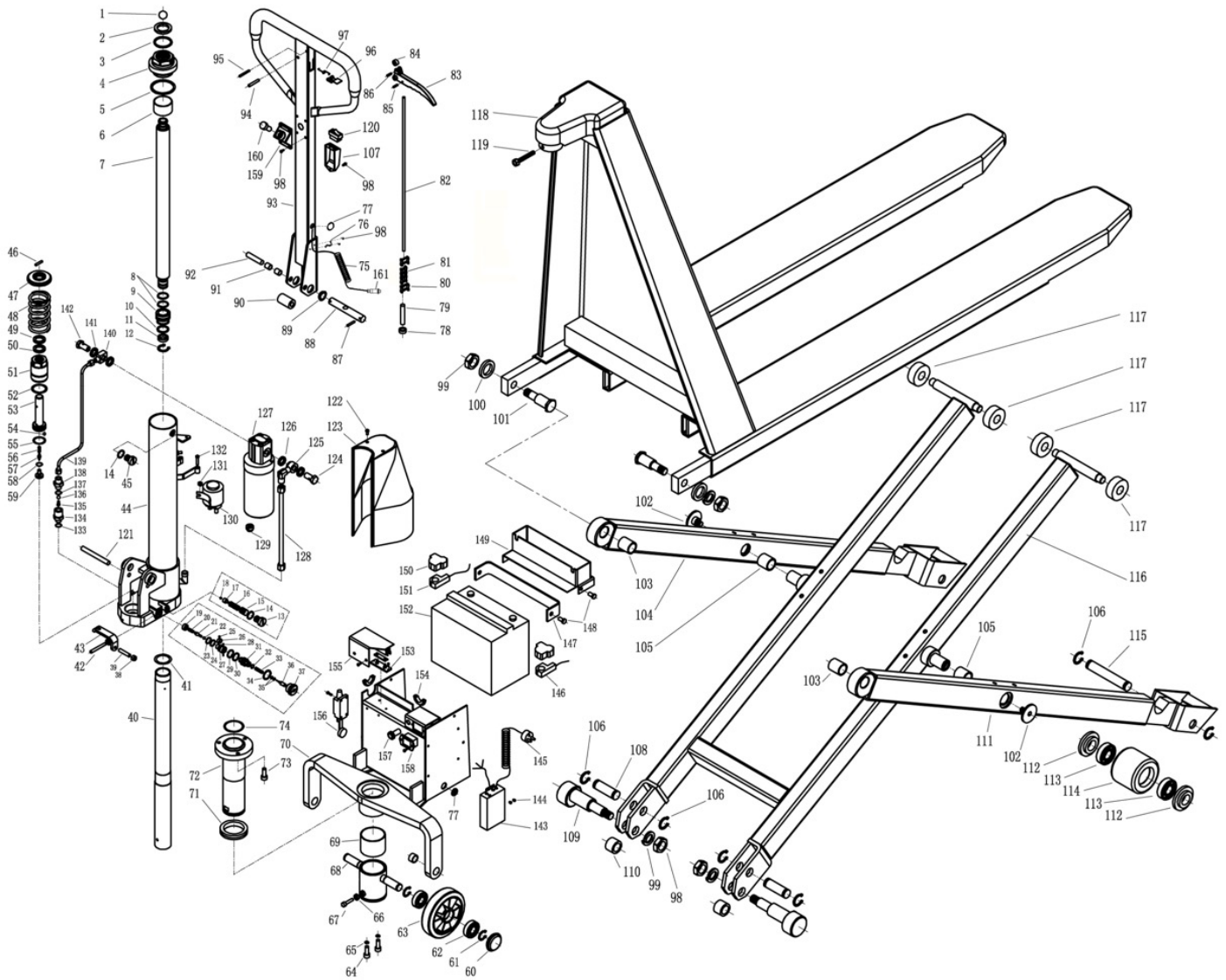


DIAGRAM HYDRAULIC SYSTEM

Parts Diagram.



Parts List.

NO	Description	QTY	NO	Description	QTY	NO	Description	
1	Steel ball	1	59	Screw	1	116	Scissor project 540*1150	1
2	Dust ring 32*40*5/6.5	1	60	Cap	2		Scissor project 685*1200	1
3	O ring 31.5*3.5	1	61	Snap ring	4	117	Roller	4
4	Cylinder nut	1	62	Bearing	4	118	Frame 540*1150	1
5	Seal ring 69*76*2	1	63	Wheel	2		Frame 685*1200	1
6	Oil baffle sleeve	1	64	Screw	2	119	Screw	1
7	Piston rod	1	65	Spring washer	2	120	Switch	1
8	O ring 15*2.5	2	66	Nut	1	121	Pin	1
9	Piston	9	67	Screw	1	122	Screw	2
10	O ring 30*3	1	68	Wheel yoke	1	123	Cover	1
11	Y ring 25*35*6	1	69	Sleeve	1	124	Seal screw	1
12	Snap ring	1	70	Frame	1	125	Adjustable screw	1
13	Seal screw	2	71	Bearing	1	126	Washer	3
14	O ring	2	72	Cylinder bush	1	127	Hydraulic unit assy.	1
15	Screw	1	73	Screw	3	128	Oil pipe	1
16	Spring	1	74	O ring	1	129	Rubber sleeve	2
17	Ball seat	1	75	Handle cables	1	130	Relay	1
18	Steel ball	1	76	Clip	1	131	Nut	2
19	Cap	1	77	Rubber sleeve	2	132	Screw	2
21	Release Valve	1	78	Nut	1	133	Washer	1
22	Steel ball	1	79	Screw	1	134	Adjustable screw	1
23	O ring	1	80	Chain Connector	2	135	Spring	1
24	Seal ring	1	81	Chain	1	136	Steel ball	1
25	Screw	1	82	Release Rod	1	137	Washer	1
26	Spring	1	83	Release Lever	1	138	Adjustable screw	1
27	Valve Insert	1	84	Roller	1	139	Oil pipe	1
28	Pin	2	85	Spring pin	1	140	Adjustable screw	1
29	O ring	1	86	Spring pin	1	141	Washer	1
30	Seal ring	1	87	Spring pin	1	142	Seal screw	1
31	Valve Insert	1	88	Shaft	1	143	Charger	1
32	O ring	1	89	Bushing	1	144	Screw	16
33	Spring	1	90	Roller	1	145	Charging line	1
34	O ring	1	91	Bushing	2	146	Battery terminal	1
35	O ring	2	92	Pin	1	147	Plate	1
36	Release indicator	1	93	Handel	1	148	Screw	4
37	Valve nut	1	94	Spring pin	1	149	Box	1
38	Nut	1	95	Spring pin	1	150	Rubber sleeve	2
39	Screw	1	96	Plate	1	151	Battery terminal	1
40	Cylinder	1	97	Spring	1	152	65Ah battery	1
41	O ring	1	98	Screw M4*8	8	153	Fuse	1
42	Spring pin	1	99	Nut	4	154	Rubber sleeve	2
43	Rocking beam	1	100	washer	2	155	Fuse cover	1
44	Pump Housing	1	101	Small Eccentric pin	2	156	Travel switch	1
45	Screw	1	102	Axle	2	157	Fuse	1
46	Pin	1	103	Bushing	2	158	Electricity meter	1
47	Spring cap	1	104	Left leg	1	159	Button base	1
48	Spring	1	105	Bushing	2	160	Button	1
49	Dust ring 20*28*4.5/6	1	106	Snap ring	8	161	Connector	1
50	Y ring 20*28*5	1	107	Switch base	1	13~18	Safety valve assy.	1
51	Pump	1	108	Shaft	2	19~37	Relief valve assy.	1
52	Seal ring	1	109	Eccentric pin	2	133/138	Oil pipe connector	1set
53	Plunger	1	110	Spacer	2	***	Pump assy.	1set
54	Steel ball	1	111	Right leg	1	***	Handle assy.	1set
55	O ring 30*3	1	112	Washer	4	***	Seal kits	1
56	Spring	1	113	Bearing	4	***	Carbon brush assy.	
57	Valve	1	114	Load wheel	2		for motor	1
58	O ring 7.8*1.9	1	115	Axle	2			

EC Declaration of Conformity

We, Jefferson Professional Tools & Equipment, as the authorised European representative of the manufacturer, declare that this equipment conforms to the requirements of the following:



EN ISO 12100:2010, EN ISO 3691-5:2015/A1:2020, EN 16307-5:2013, EN 1175:2020, EN 13059:2002+A1:2008,
EN 12053:2001+A1:2008, EN 12895:2015+A1:2019

Related to CE Directive(s): 2006/42/EC (Machinery) 2014/30/EU (Electromagnetic Compatibility)

Notified Testing Body:

Ente Certificazione Macchine Srl
Via Ca' Bella, 243 – Loc.
Castello di Serravalle – 40053
Valsamoggia (BO) ITALY

Description:

1.5 Tonne Semi Electric High Lift Pallet Truck
JEFELPT15SHL

Signed:

Stephen McIntyre
Operations Manager

Date:

17 July 2024

**Name and address of manufacturer
or authorised representative:**

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