



Note: Operator MUST read and understand this operating instructions before use this Pallet Truck



Electric High Lifting Pallet Truck I10E

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Year of Manufacture: 2016

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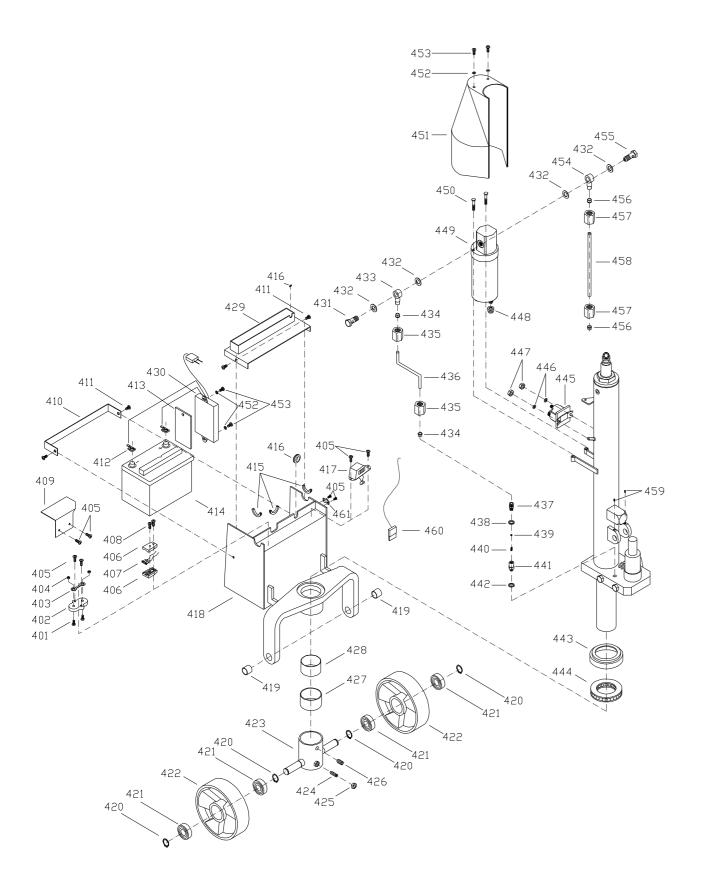
PARTS LIST OF FRAME (||)

NO.	Description	Qty.	NO.	Description	Qty.
401	Hexagon Head Bolt	2	431	Bolt	1
402	Fuse Carrier	1	432	Seal Gasket	4
403	Fuse	1	433	Connector	1
404	Nut	2	434	Sheath	2
405	Screw	8	435	Nut	2
406	Fuse Carrier	2	436	Steel Oil Pipe	1
407	Fuse	1	437	Carve Tie-in	1
408	Screw	4	438	Seal Gasket	1
409	Cover	1	439	Steel Ball	1
410	Baffle	1	440	Spring	1
411	Screw	4	441	Seat of Valve	1
412(+)	Battery Clip(+)	1	442	Seal Gasket	1
412(-)	Battery Clip(-)	1	443	Seat of Bearing	1
413	Plate	1	444	Bearing	1
414	Battery	1	445	Electromagnetic Switch	1
415	Rubber Band	2	446	Plain Washer	2
416	Rubber Band	2	447	Nut	2
417	Circuit Module	1	448	Rubber Sheath	1
418	Thrust Plate	1	449	Motor Assembly	1
419	Bushing	2	450	Hexagon Head Bolt	2
420	Circlip for Shaft	4	451	Motor Cover	1
421	Bearing	4	452	Plain Washer	4
422	Wheel	2	453	Screw	4
423	Holding Site for Wheel	1	454	Connector	1
424	Screw	1	455	Bolt	1
425	Nut	1	456	Sheath	2
426	Bolt	3	457	Nut	2
427	Bushing	1	458	Brass Oil Pipe	1
428	Bushing	1	459	Slotted Set Screw	2
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Breakdown Drawing of Frame (II)



1.Specifications

Model	I10E			
Rated lifting capacity	1000 kg			
Max. Fork height	800 mm			
Min. Fork height	85 mm			
Fork length	1170 mm			
Front load roller	φ 75 x50mm			
Steering wheel	φ 180 x50mm			
Fork width (outside)	540 mm 680mm			
Lifting time with rated load	20s			
Lifting time without load	11s			
Pump times with hand	Fast: 29	Slow: 80		
Descending speed	∠0.1 mm/second			
Battery	12V/70AH			
Net Weight	150 kg 158kg			

2. Safety Instructions

- 1.Read the manual carefully before operation. Go through every procedure as required in the manual.
- 2. Lifting the fork to its full range by 1 to 2 times before use to release the air in the hydraulic system.
- 3.Don't put the hand & foot under the fork at any time.
- 4.Don't work on the slope surface.
- 5. The safety valve in the pump station will be automatically open when it is overloaded. Under such circumstances don't try to lift the load any more by push the "up" button otherwise that will reduce the life time of the pump station. Any manipulation of the safety valve is strictly prohibited. All assembling, adjusting and maintenance shall only be done by industrial mechanics trained people. These people must be familiar with all safety regulations of European and national where the item is in use relating to the operation and maintenance of pedestrian controlled industrial trucks.
- 6.Load should be put on the fork center. Side-load is strictly prohibited.
- 7. The truck shall not be used to transport persons.
- 8.It is recommended to the driver to wear security shoes.
- 9. Switch off the electricity after use.
- 10.To replace or fill hydraulic oil, the fork should be lowed to its bottom position. The oil to be used should be clean and filtered. The condensation point of the oil should be $\leq -20^{\circ}$ C, the motion viscosity 20-30 cst.

3.Installation & Adjustment

1.Screw(part No.332)

- To prevent oil–leaking from oil tank during transportation, Air Screw (part No.332) is replaced with Oil–sealing Screw(part No.325) in the factory. But it has to be replaced back when you put this truck in use.
- How to change: Screw out Oil-sealing Screw, then screw in Air Screw, thus keep oil tank always connecting with atmosphere.

2. Handle and electrical equipment

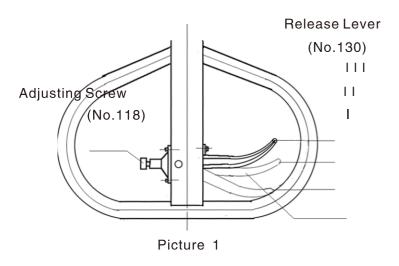
During transportation, the handle is disassembled from the truck and packed separately. It has to be assembled back and adjusted properly and carefully before use.

A.Installation:

- 1) Take 3 pieces of M10 Socket cap screws(No.108), Spring Lock Washers(No.107) & a Hexagon Ring Spanner from spare parts bag. Select handle to match the truck with the same fitting numbers.
- 2) Assemble the handle on the Handle Seat (No.101) with the 3 pieces of M10 Socket cap screws (No.108) & Spring Lock Washers (No.107), and Use the Hexagon Ring Spanner to screw them down.
- 3) Put the Adjusting Bolt (No.134) in the slot at the front end of Pendulum Arm (No.324).
- 4) Put the Release Lever(No.130) at the low position, and operate the handle (No.109) to lift the fork to 450–600mm height. Take away the Baffle (No.410) and Battery Cover (No.429), then put a Battery (No.414) into battery tank in the front of part (418). Connect Battery Clip (+) (No.412(+)) and Battery Clip (-) (No.412(-)) to the (+)(-) poles of the battery accordingly, and tighten the bolt on the Battery Clip. Place Baffle and Battery Cover in. Finally descend fork to its lowest position.
- 5) Insert Connector Plug(No.111) into Connector Plug[No.460 under Motor Cover(No.451)]. 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 Switch(No.114), check the Circuit Module(No.417) ,the electricity should be over 3 lines, If below 3 lines(in the red light area), the electricity should be charged.
- 6) Check pipes in hydraulic system, see if there is any leakage or seeping.
- 7) Place Release Lever(No.130) on Position I,press Up–Button (No.124) 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 Button(No.124) to lift the fork to the highest position. The Spacing should effect. Then place Release Lever(No.130) to its highest position III, the fork should be able to descend smoothly.
- 8) Repeat the above said procedures for 2 or 3 times to see if there is any abnormality and to drive air from hydraulic system.

B.Adjustment

 There are 3 different positions with different functions for the Release Lever (part No.130).
 See picture 1

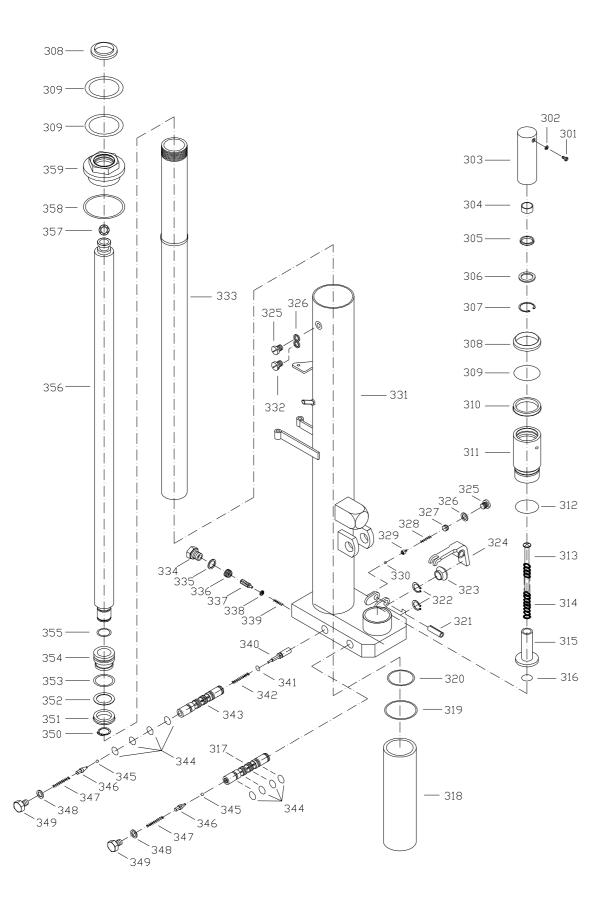


Position I: Quick lifting for fork.
Position II: Slow lifting for fork
Position III: Descending the fork

PARTS LIST OF PUMP

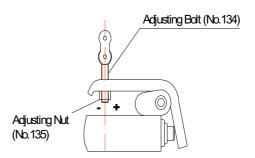
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NO.	Description	Qty.	NO.	Description	Qty.
301	Screw	1	331	Pump Housing	1
302	Seal Gasket	1	332	Air Screw	1
303	Pump Piston	1	333	Cylinder	1
304	Guide Ring	1	334	Seal Bolt	1
305	Y-Ring	1	335	Seal Gasket	1
306	Washer	1	336	Anchoring Screw	1
307	Circlip for Hole	1	337	Adjusting Screw	1
308	Dustproof Ring	2	338	Throttleer	1
309	O-Ring	3	339	Spring	1
310	Y-Ring	1	340	Release Indicator	1
311	Pump Cylinder	1	341	O-Ring	1
312	O-Ring	1	342	Spring	1
212	Carina Cuida	1	343	Low-pressure	1
313	Spring Guide	1	343	Valve-stem	1
314	Spring	1	344	O-Ring	8
315	Hi-pressure Piston	1	345	Steel Ball	2
316	O-Ring	1	346	Release Valve	2
0.17	High-pressure		0.47	0 :	
317	Valve-stem	1	347	Spring	2
318	Cylinder Bush	1	348	Seal Gasket	2
319	O-Ring	1	349	Bolt	2
320	O-Ring	1	350	Circlip for Shaft	1
	Spring-type Straight	<u> </u>	000	On onp for order	 '
321		1	351	Y-Ring	1
322	Pin Circlip for Shaft	2	352	Nylon Gasket	1
323	Rubber Sleeve	1	353	O-Ring	1
324	Pendulum Arm	1	354	Piston	1
325		2	355		1
326	Oil-sealing Screw	2	356	Retaining O-Ring Piston Rod	1
	O-Ring				1
327	Screw	1	357	Steel Ball	
328	Spring	1	358	Nylon Gasket	1
329	Ball Seat	1	359	Cylinder Nut	1
330	Steel Ball	1			

Breakdown Drawing of Pump



• Test different functions by putting the Release Lever in 3 different positions respectively.

If it does not function properly, adjust the adjusting Nut (No.135) by the following process. See picture 2

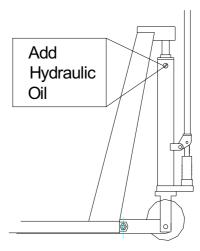


Picture 2

Problems	Adjusting the adjusting Nut
On position 3, Fork does not	Turn Nut upward anticlockwise (+)
descend	
On position 1, Fork does not	Turn Nut downward clockwise (-)
lifting	
On position 2, not lifting	Turn Nut downward clockwise (-)

The machine is now ready for use.

When to add oil See picture 3



Picture 3

Low down the fork to its lowest position. Turn loose the screw (No.325 or 332). Add hydraulic oil into the oil tank. Then turn the screw tightly. Press the Up-Button (No.124), check If the fork can be pumped up to its rated highest position, if not, repeat above procedure. Don't add the oil up to filling mouth once. The hydraulic fluid to be used must have a quality of ISO VG22 or equivalence. Mixing of different fluids is prohibited!

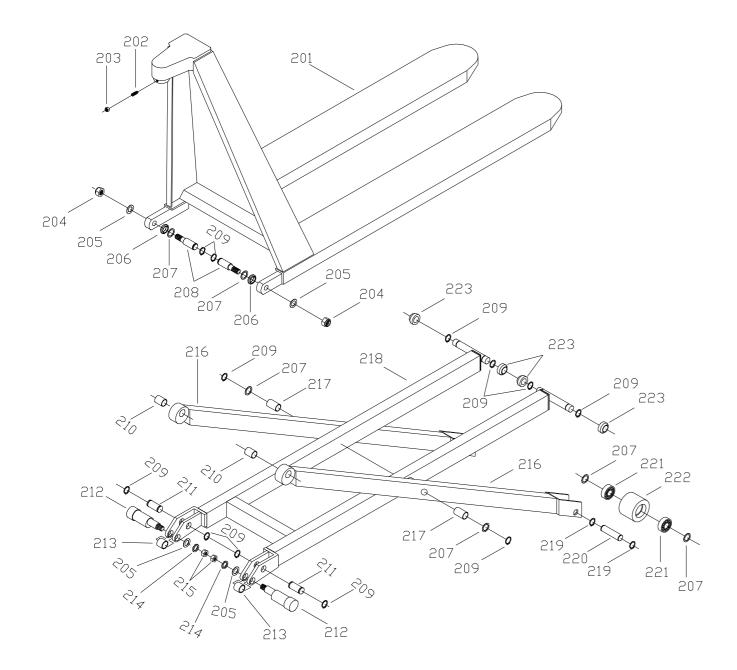
4. TROUBLE SHOOTING GUIDE

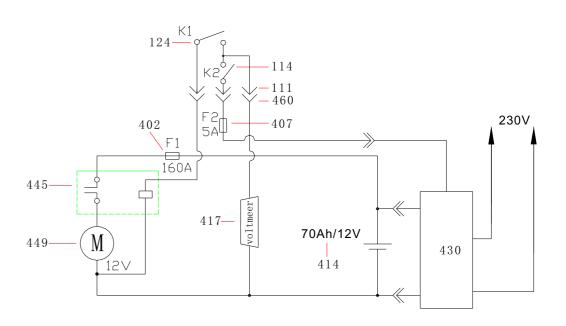
Items	Symptom	Possible cause	Aliments
		Release Lever(No.130)	Adjust according the way in
	Fork can not be	is not in right position.	B above
	pumped up while	Exist air in the hydraulic	To operate the fork up-down
1	operate the	system.	to its full range 1-2 times
	handle		with no load by manual or
			electrical operation
	Fork can't be	Oil is not enough.	Add hydraulic oil.
2	pumped up to		(see picture 3)
4	rated highest		
	position.		
		Blocked by foreign	Take away foreign object
		object.	
	Fork can not	Fork or other parts are	Replace damaged parts.
3	descend	damaged	
	descend	Adjusting nut(No.135)	Adjusting
		not adjusted properly	nut(No.135) properly.
			(see picture 2)
		Release Lever(No.130)	Adjust according the way in
		is not in right position.	B above.
		Switch is broken	Replace switch
	Fork does not	Fuse melt down	Replace fuse(F1 402, F2
4	ascend when		407)
1	press switch	Hydraulic pump does	Check motor
	(No.124)	not work	
		Electromagnetic	Check Electromagnetic
		Switch(No.445) is	Switch
		broken	
		Motor is broken	Check or replace motor
5	Motor does not work	Connector and(or)	Check all connectors
		plug-socket are loose	
		Battery is worn out	Recharge battery
6	Battery capacity	Battery is not charged enough	Recharge
Ĺ	to low	Battery is defective	Replace the battery
7	Oil loss on hydraulic cylinder	Sealing elements are worn	Replace sealing elements

PARTS LIST of FRAME (|)

NO.	Description	Qty.	NO.	Description	Qty.
201	Fork Frame	1	213	Bushing	2
202	Bolt	1	214	Spring Lock Washer	2
203	Locknut	1	215	Nut	2
204	Locknut	2	216	Knighthead	2
205	Plain Washer	4	217	Bushing	2
206	Spacer	2	218	Chassis Frame	1
207	Plain Washer	8	219	Circlip for Shaft	4
208	Pin	2	220	Shaft of Roller	2
209	Circlip for Shaft	12	221	Bearing	4
210	Bushing	2	222	Roller	2
211	Pin	2	223	Steel Roller	4
212	Eccentric Spindle	2			

Breakdown Drawing of Frame (|)





POWER DIAGRAM

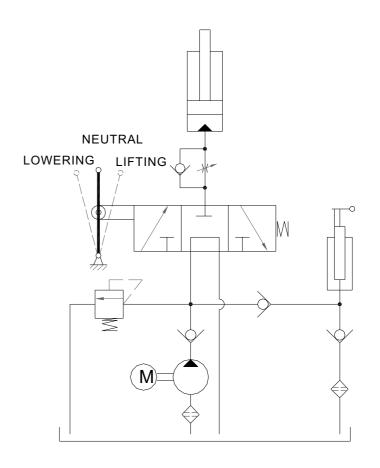
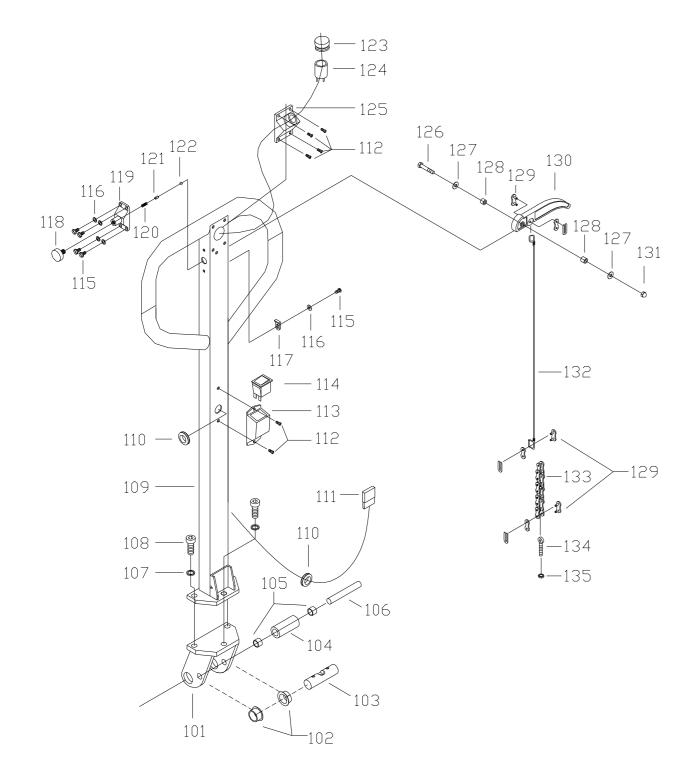


DIAGRAM HYDRAULIC SYSTEM

5.Spare parts list

Breakdown Drawing of Draw-bar



PARTS LIST OF DRAW-BAR

NO.	Description	Qty.	NO.	Description	Qty.
101	Handle Seat	1	119	Spring Socket	1
102	Bush	2	120	Spring	1
103	Axle with Hole	1	121	Pin	1
104	Roller	1	122	Ball	1
105	Bush	2	123	Button Cover	1
106	Pin	1	124	Up-Button	1
107	Spring lock washer	3	125	Socket of button	1
108	Socket cap screw	3	126	Hexagon head bolt	1
109	Handle	1	127	Plain washer	2
110	Rubber band	2	128	Spacer	2
111	Connector Plug	1	129	Chain connector	3
112	Screw	6	130	Release Lever	1
113	Socket of switch	1	131	Nut	1
114	Switch	1	132	Release Rod	1
115	Screw	5	133	Chain	1
116	Plain washer	5	134	Adjusting Bolt	1
117	Positioner	1	135	Adjusting Nut	1
118	Adjusting Screw	1			