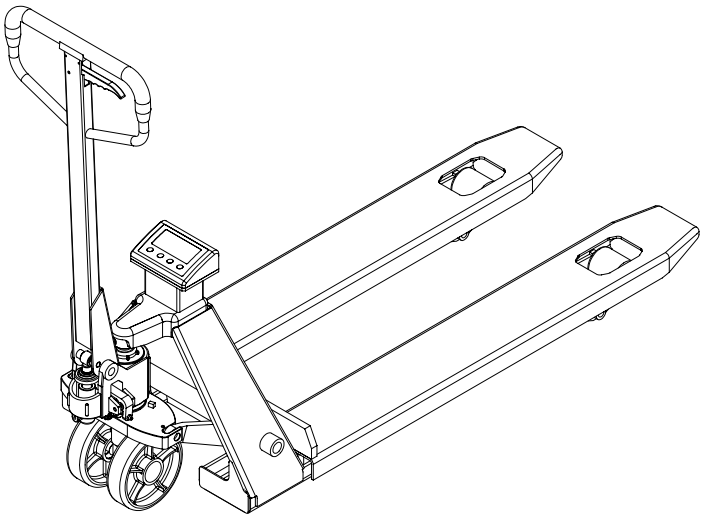
BFC6-7/BFC6-8

Scale pallet truck

- **Operation manual**
- **Spare parts catalogue**



2008-12

Welcome to choose the BFC6 hand pallet truck with scale. Please read this operation manual carefully before you use it. The manual could provide direct help for your operation.

Hint: The BFC6 hand pallet truck with scale is only used to weigh up the pallet cargos at storehouse. This kind of truck possesses the features of stable lifting, easy operation, safety & reliability and so on. And it is suitable to be operated indoor on level and hard ground. Meanwhile it can also be used as a transportation tool.

Note: This type of hand pallet truck with scale adopts lead-acid storage battery, so it can not be in the state of lack of electricity for a long time. Pay attention to in-time charge of the storage battery, otherwise it will cause damage to the battery.

1. Main technique indexes

Max weighing：2000Kg

Division value：1kg/0.5kg

Output format：multiple row print (gross weight, tare weigh and net weight)

2. Assembly of the hand pallet truck with scale

2.1 Assembly of hand grip

2.1.1 See the fig 1. Dismantle the spring pin 1 from pin roll 2, and then pull out the pin roll 2.

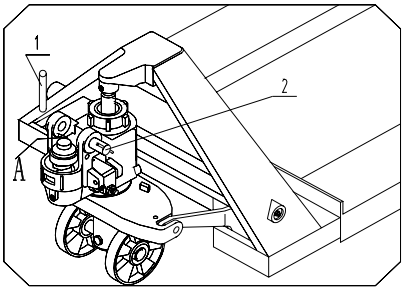


Fig.1

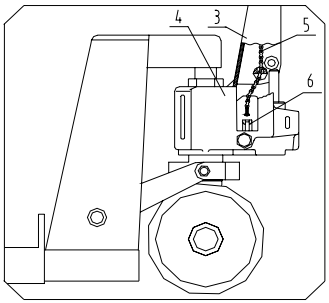


Fig.2

2.1.2 Insert the hand grip 3 to place A. Couple the hand grip 3 and pump body 4 with pin roll 2. In the portrait direction, the pin roll 2 should not be mounted to the end, and put apart some place to turn freely.

2.1.3 Turn the pin roll 2, and make sure that the big hole axis of pin roll is just in the verticality. Put the chain 5 of hand grip get across the middle hole of pin roll 2. See fig 2.

2.1.4 Take screw nut which is at the end of chain 5 and hitch the groove of lever board 6.

See fig 2 and fig 5.

2.1.5 Turn the pin roll 2 to the original position, and push longitudinally to the end. Then put spring pin 1 get across pin roll 2 to reset.

2.1.6 See fig 3, turn the hand grip to the level position, pull out pin 7 and save pin 7 with care for next use.

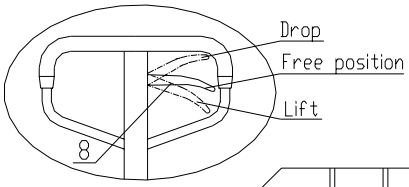


Fig. 4

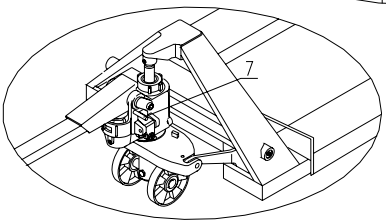


Fig. 3

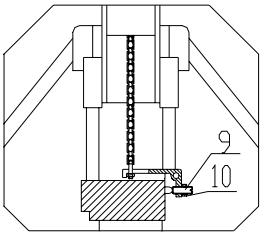


Fig. 5

2.1.7 Try to rock the hand grip and operate different positions of control handle knob 8 to examine the lifting, free position and dropping and check that whether the different positions are normal or not. See fig 4

2.1.8 The screw 9 in fig 5 is used to adjust the truck situation. When the truck body drops immediately after it is lifted, you should turn the screw 9 a little counter -clockwise. And then try the truck again until truck body could lift normally. If the truck body couldn't drop after it is lifted, you should turn the screw 9 a little clockwise. And then try to operate truck again until the truck body could drop normally. The external hexagon nut 10 at screw 9 plays the locking function in the truck. So you should undo the external hexagon nut 10 before adjustment. And screw down the nut 10 after you finish the adjustment.

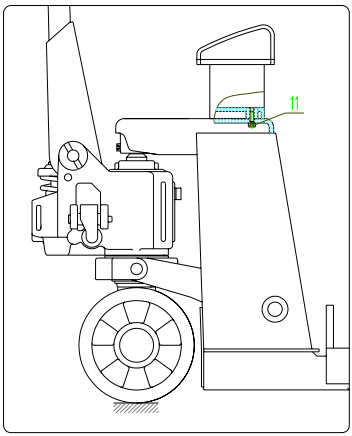


Fig. 6

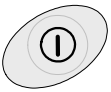
2.2 Instrument installation

2.2.1 Steelyard stand should be placed as indicated in fig6 and align the fixed holes.

2.2.2 Use three screws 11 to fix the steelyard stand as shown in fig 6.

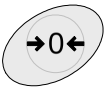
3. Operation in using：

3.1 On /Off key



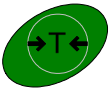
In “power off ”state, hold the key 2 seconds and all display segments will light. In normal display state, hold this key 2 seconds, the instrument will show [-OFF-], then power off.

3.2 Zero



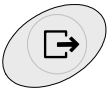
Zero the scale.

3.3 Tare



Tare the scale, the display will change to net mode.

3.4 Print



Print the current weight.

4. Other operations:

4.1 See printer instruction for the details of printer operation.

4.2 See instrument instruction for other operations of the instrument.

5. Loading type and rated weight

5.1 The best loading type is that the gravity center of the cargo is just in the middle of truck forks. The rated weight must be reduced when the cargo gravity center is not in the middle of truck forks. The rated weight is shown as the label.

5.2 See fig 4. When the hand pallet truck with scale is used to weigh or carry some cargo, the handle knob 8 should be placed on dropping condition to let the truck forks down to a certain position. Then insert the forks to the pallet and place the handle knob 8 on the lifting condition so as to rock the hand grip to lift the truck forks.

5.3 During the process of moving cargo, the handle knob 8 should be placed on the free position.

6. Oil

6.1 The oil capacity which oil pump needs is about 250ml (or 0.25kg). According to the ISO oil criterion, the choice of oil is 32# when the environment temperature during -5~40 °C.The choice of oil is low temperature oil when the environment temperature during -35~-5°C.

6.2 Disposal of waste oil: Dispose the waste oil in terms of relative laws and forbid pouring out anywhere.

7. Maintenance

The routine check should be carried out daily and every abnormal phenomenon should be dealt with immediately. Please do not use faulty truck in order to prolong the service life. All the rotary joints should renew the motor oil every three months. Especially pay more attention to the place between wheel and axis. Make sure that there is not any yarn or other rags in order to keep all wheels running with handiness. Make sure the electric power is full, instrument display and printing is in working condition. If the hand pallet truck with scale has not been used for a long time, the battery should be removed and the quantity of electricity should be enough all the time.

8. Working environment conditions

This type of hand pallet truck with scale is applicable to ordinary industrial environments and business environments. The operating temperature is in the range of -5°C~+40°C. The requirement of relative humidity is 10-95%RH. The working place must be plane. This type of hand pallet truck with scale is not suitable to be used in the special place where there are some explosive materials.

9. Warning level A

9.1 Please read the operation instruction carefully before you operate the hand pallet truck with scale and learn about all the features of this type of hand pallet truck with scale.

9.2 If you want to let the cargo down by controlling the hand grip, you should lift the truck forks a little at first, and then let the truck down slowly. It is forbidden to pull the handle knob with great force, because rapid dropping could cause some damages to both the hand pallet truck with scale and cargo.

9.3 Don't rock the hand grip at a high speed and in a high frequency.

9.4 Don't load the cargo at a high speed.

9.5 Do not overload the forks. Overloading could keep the hand pallet truck with scale from working normally.

9.6 The gravity center of cargo should be in the middle of truck forks. The offset of cargo could make the truck out of balance.

9.7 Non-palletized cargo should not be weighed by this type of hand pallet truck with scale.

9.8 Do not put the cargo on the truck forks for a long time.

9.9 When hand pallet truck with scale does not work, make sure that the truck forks is on the lowest position and the power should be cut off.

9.10 Do not load people and let them stand on the truck forks and slide. It is strictly forbidden that put any part of body below the cargo.

9.11 The hand pallet truck with scale should be operated on flat and hard ground and don't use it on the slope!

9.12 Do not use the hand pallet truck with scale in environment exposed to rain and sun.

9.13 Do not operate the unspecified position.

9.14 Do not try to repair the hand pallet truck with scale unless you have been trained.

9.15 The power used for the printer is free-maintenance charged battery. Once the battery is damaged or has been used up, it should be carried to recycle bins and forbid disposing anywhere.

9.16 This type of hand pallet truck with scale is not suitable for trade settlement.

10. The requirements of hoisting and transportation

10.1 See Fig 10, both of hand grip and steelyard stand should be detached and packed in another way before hoisting and transportation.

10.2 The hand grip and steelyard stand should be fixed stably in case of gliding and damages. And then they are packed in a case and transported by forklift truck or hoisting apparatus.

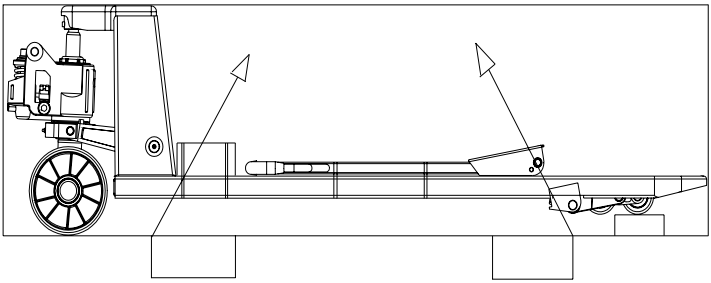
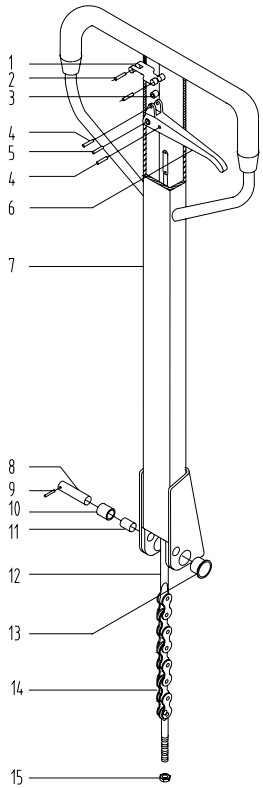


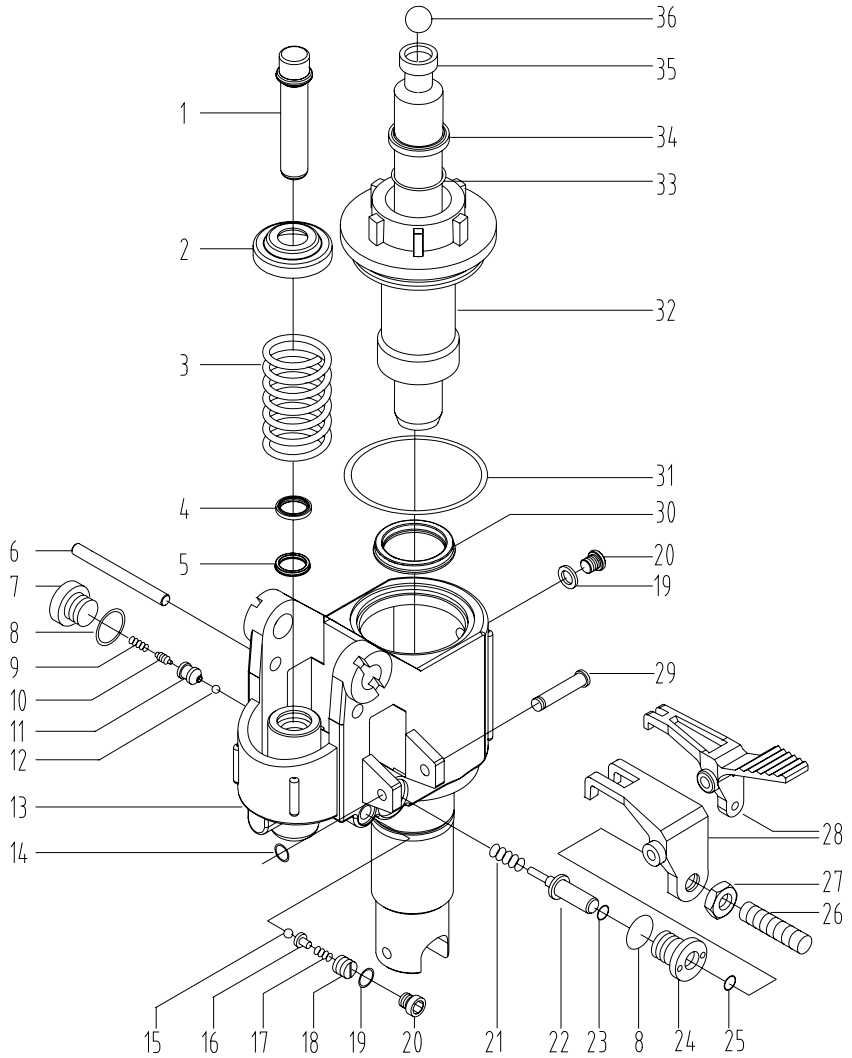
Fig 10

BFD6-7/8 handle assmbly and spare parts list



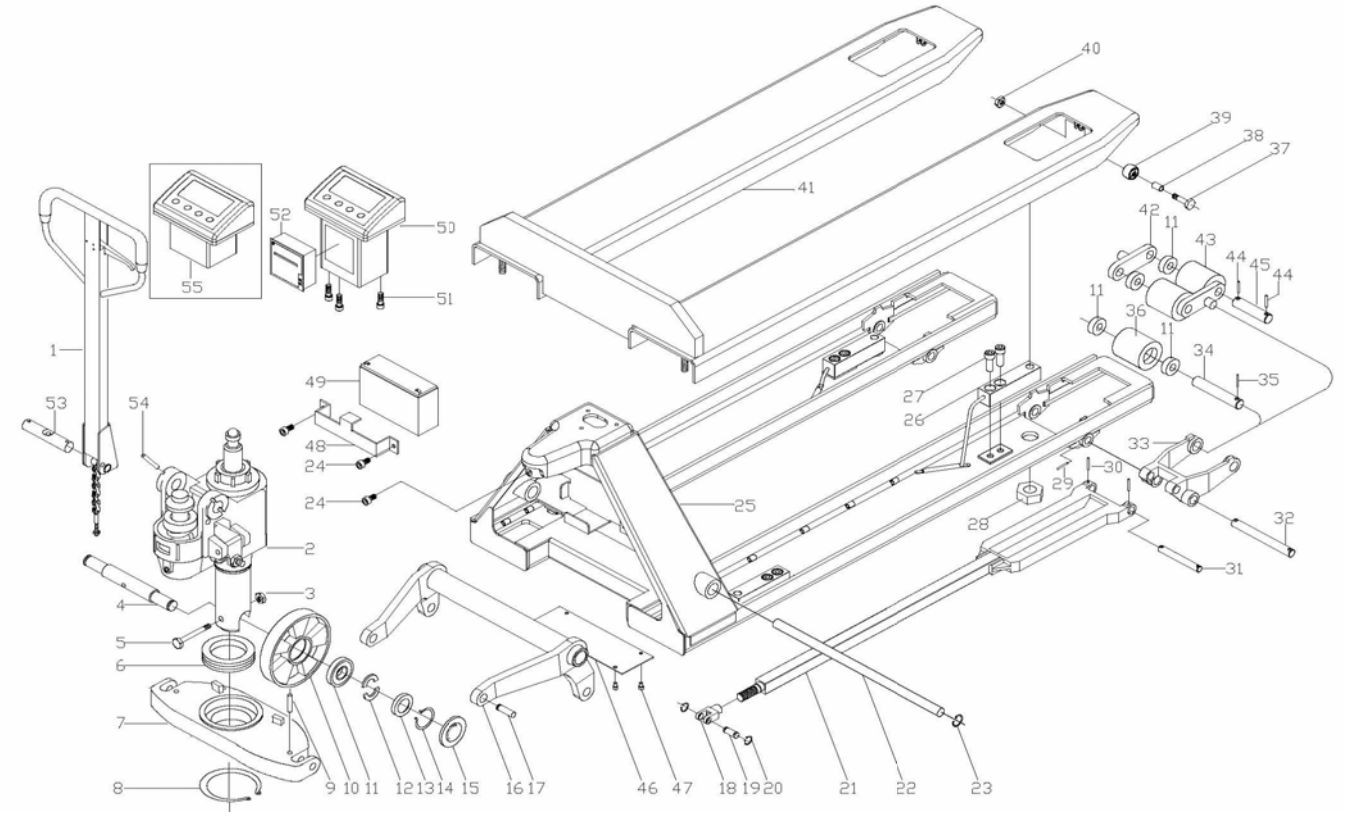
No.	Drawing no.	Description	Qty.	No.	Drawing no.	Description	Qty.
1	DF.1-01a	Location plate	1	9	GB879-86	Pin 3x20	1
2	GB879-86	Pin 4x30	2	10	CN.2-13	Pressure roller	1
3	DF.1-02	Roller	1	11	CSB10	Bushing 1220	1
4	GB879-86	Pin 4x20	2	12	DF.1.2-00	Pull rod	1
5	GB879-86	Pin 6x30	1	13	SF-1	Bushing SF-1F2015	2
6	DF.1-03	Handle knob	1	14		Chain C-6-9-04A	1
7	BF.1.1-00	Handle assembly	1	15	GB889-86	Lock nut M5	1
8	DF I .2-04	Pin	1				

BFD6-7/8 pump assmbly and spare parts list



No.	Drawing no.	Description	Qty.	Remark
1	BF.2-1	Pump plunger 18x97	1	
2	AF.2-3	Spring cap	1	
3	BF.2-6a	Spring	1	
4	DH20	Dust ring 18	1	
5	UHS20	Y-ring 18	1	
6	AM-19	Shaft	1	
7	JF.1-17	Seal screw M20x1.5	1	
8	JB982-77	Combined washer 20	2	
9	AF.2-9	Spring	1	
10	SYBC2-07	Valve core	1	
11	SYBC.2-08	Valve	1	
12	GB308-77	Steel ball 6.35	1	
13	BF.2.1-00	Pump house	1	
14	GB894.1-86	Axile snap ring 8	1	
15	GB308-77	Steel ball 5	1	
16	CN.2-26	Steel ball base	1	
17	CN.2-27	Spring 2x8x16	1	
18	CN.2-28	Adjusted screw M10x1	1	
19	JB982-77	Combined washer 10	2	
20	CN.2-17	Screw M10x1	2	
21	BF.2-5	Spring 1.2x9x22	1	
22	AF.2-7	Firing pin	1	
23	GB3452.1-82	O-ring 7X1.8	1	
24	AF.2-06a	Firing pin base	1	
25	GB3452.1-82	O-ring 8x2.65	1	
26	GB73-85	Lock screw M6x25	1	
27	GB6170-86	Hux nut M6	1	
28	AF.2-08	Lever plate	1	Standard
	AF.2-08III	Lever plate 3	1	Pedal
29	BF.2-3	Shaft 8x58	1	
30	UHS31.5	Y-ring 31.5	1	
31	GB3452.1-82	O-ring 65x2.65	1	
32	BF.2-2a	Guide sleeve 31.5	1	
33	GB3452.1-82	O-ring 31.5x3.55	1	
34	DH31.5	Dust ring 31.5	1	
35	AF.2-4	Piston rod 31.5x263	1	
36	GB308-77	Steel ball 19.05	1	

BFC6-7/8 Final assembly drawing and spare parts list



No	Drawing no	Description	Qty	No	Drawing no	Description	Qty	No	Drawing no	Description	Qty
1	BF.1-00	Handle assembly	1	20	GB894.1-86	Circlip for shaft 16	4	39	AF-09	Roller	2
2	BF.2-00	Oil pump assembly	1	21	BFC6.2.1-00	Connecting rod	2	40	GB889-86	Lock nut M6	2
3	GB889-86	Locknut M8	1	22	AF-02	Long shaft	1	41	BFC6.3-00	Scale pan unit	1
4	AF-07	Axle, front wheel	1	23	GB893-86	Circliip for hole 25	2	42	DFQ-03	Support plate	4
5	GB5782-86	Hexagon bolt M8X55	1	24	GB70-85	Inner hexagon bolt M6X12	1	43	DFQ-01A/B	Fork wheel 60X70	4
6	GB306-64	Bearing 8111	1	25	BFC6.1-00	Fork frame	1	44	GB879-86	Spring pin shaft 5X28	8
7	BF-03	Support seat	1	26	BFC6-01	Senso	4	45	DFQ-02	Pin shaft with two hole	4
8	GB894.1-86	Circlip for shaft 55	1	27	GB70-85	Inner hexagon bolt M12X30/40	8	46	BFC6-03	Lid	1
9	GB879-86	Spring pin 5X28	2	28	GB889-86	Lock nut M10	4	47	GB67-85	Pan head screw M6X8	4
10	DFQ.4-01	Wheel 160X50	2	29	GB879-86	Spring pin 5X30	4	48	BFCD7.2.1-03	Clip for battery	1
11	GB278-64	Bearing 60204	8/12	30	GB879-86	Spring pin 5X22	4	49	3-FM-10	Battery	1
12	AF-05	Semi-circular ring	4	31	BFC6.2-02	Pin shaft with two hole 16X111	2	50		Meter (print)	1
13	AF-06	Bowl washer	2	32	DB.3.3-04	Pin shaft with two hole 16X148	2	51	GB70-85	Inner hexagon bolt M6X16	3
14	GB894.1-86	Circlip for shaft 20	2	33	BFC6.2-01b	Wheel frame	2	52		Printer	1
15	DF-10	Dustproof cover	2	34	DFQ-05	Pin shaft with hole	2	53	BF-01	Pressure wheel axle 20X106	1
16	BF.3-00	Rocker arm unit	1	35	GB879-86	Spring pin shaft 5X28	2	54	GB879-86	Spring pin 5X40	2
17	BF-04	Pin roll 16X40	2	36	DFQ-04A/B	Fork wheel 70X80	2	55		Meter	
18	AF.7-05	Coupling joint	2	37	GB5782-86	Hexagon bolt M6X50	2				
19	EF-01	Double-groove pin roll16X52	2	38	AF-08	Sleeve	2				