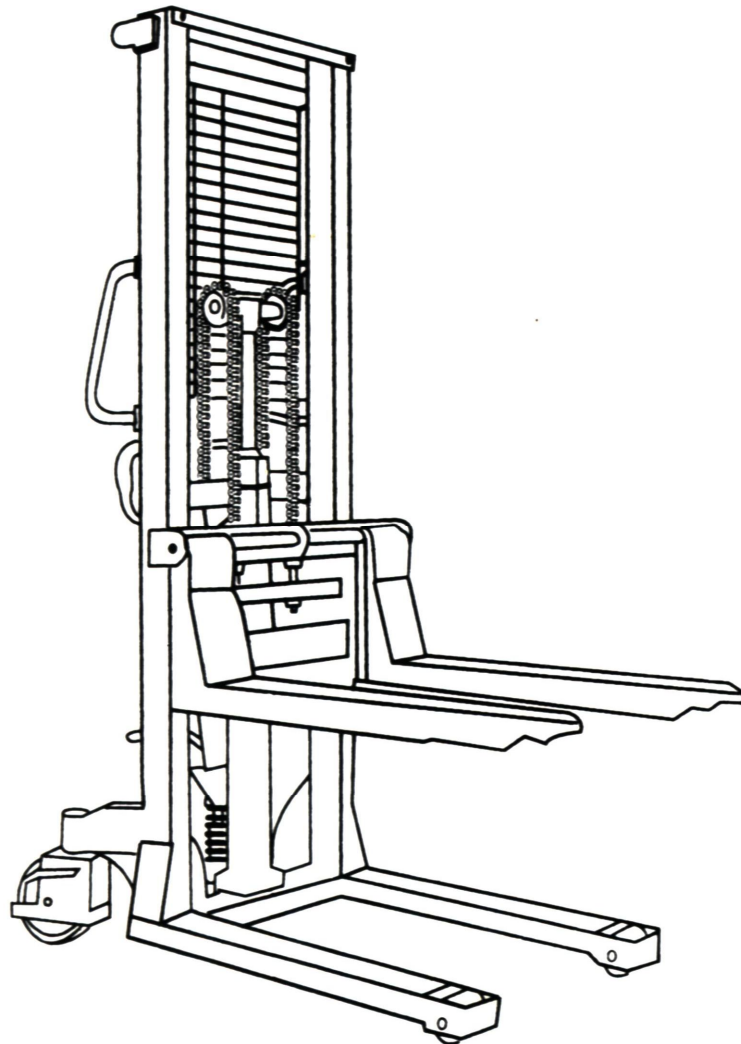




FSR101 MANUAL STACKER OPERATOR'S MANUAL



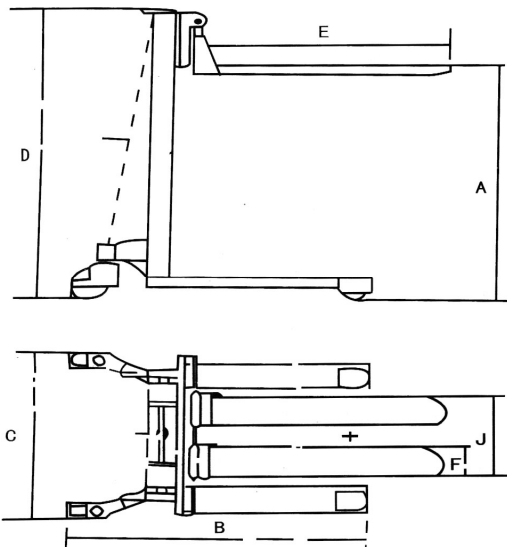
FSR101 SERIES MANUAL HYDRAULICS STACKER

OPERATOR'S MANUAL

I . Introduction

FSR101 high-lifting hydraulic fork lifter is a dual-purpose tool for high-lifting handling and short haulage. As it produces no spark and electromagnetic field, the lifter is especially applicable for handling and hauling inflammable and explosive goods in the site of truck loading/unloading, workshop, warehouse, depot, freight yard etc. With the characteristics of stable elevation, flexible turning, easy operation, safe and reliable performance and particularly brake caster, this lifter is an ideal tool for reducing labor intensity, increasing productive efficiency and ensuring safe handling.

II . Technical parameter



MODEL		FSR101
CAPACITY (KG)		1000
LIFTING HEIGHT (MM)(A)		
OVERALL LENGTH(MM)(B)		1424
OVERALL WIDTH(MM)(C)		720
OVERALL HEIGHT (MM)(D)		1960
FORK	LENGTH(MM) (E)	895
	WIDTH(MM) (F)	140
DISTANCE OF FORK (J)	MAX(MM)	680
	MIN(MM)	288
LIFTING SPEED (MM)	UP(MM/PUMP)	≥22
	DOWN	ADJUSTING
STEERING RADIUS(MM)		1250
LOAD WHEEL(MM)		Φ80
CASTER WHEEL(MM)		Φ180
WEIGHT(KG)		200

III. Structure and Mechanism

The FSR101 high-lifting manual hydraulic fork lifter is composed of hydraulic system and mast.

This lifter hoists weights with manual hydraulic jack and hauls loads by manual force.

The hydraulic gear is equipped with spill valve and descent lever to control fork lowering rates and ensures the hydraulic action accurate and reliable.

The working process is as follows: insert the fork under the weights, brake the rear wheels if required, throw handle or step on the foot pedal to press pump element so that the oil in pump tank enters the bottom of piston cylinder and lift the piston rod assembly upwards a stroke. Through chain lift forked frame and forks upwards twice stroke. Repeatedly throw handle or step on foot pedal to hoist weights. When the fork is lifted to the highest position, pressure will get back to oil tank via relief valve so as to avoid the fork from further lifting and even damaging. Pull or push the lifter manually to haul loads from place to place. To unload the weights, pull up the lever so that the spill valve will be open and via the spill valve the working oil in piston cylinder will get back to oil tank under the weight of loads. The fork proper, piston rod assembly and the fork will lower to preset position; then withdraw the fork and unload the weight. Thus, the dual effects of hoist and hauling are obtained.

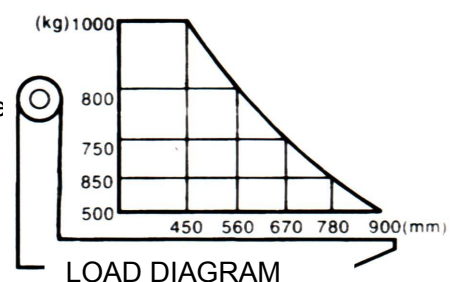
IV. Operation and Maintenance

1. The ambient temperature for FSR101 high-lifting manual hydraulic fork lifter is -25~45°C.
2. Oil should be filtered clean and maintained adequate.
3. Before operating the lifter, check whether every structure is normal and every joint part is tightened.

4. Goods should be placed on the fork uniformly and must not be overloaded (see the right figure).
5. Heavy should not be allowed to remain on the fork for a long time after operation is over.

6. When goods are lowered, descent lever should be pulled up lightly and slowly in order not to lower the freight suddenly and cause unsafe cases.

7. When goods are lowered at a high speed, it is inadvisable to suddenly shut spill valve, for it will produce a great force caused by the inertial acceleration at the meantime so as to spoil machine member and freight.

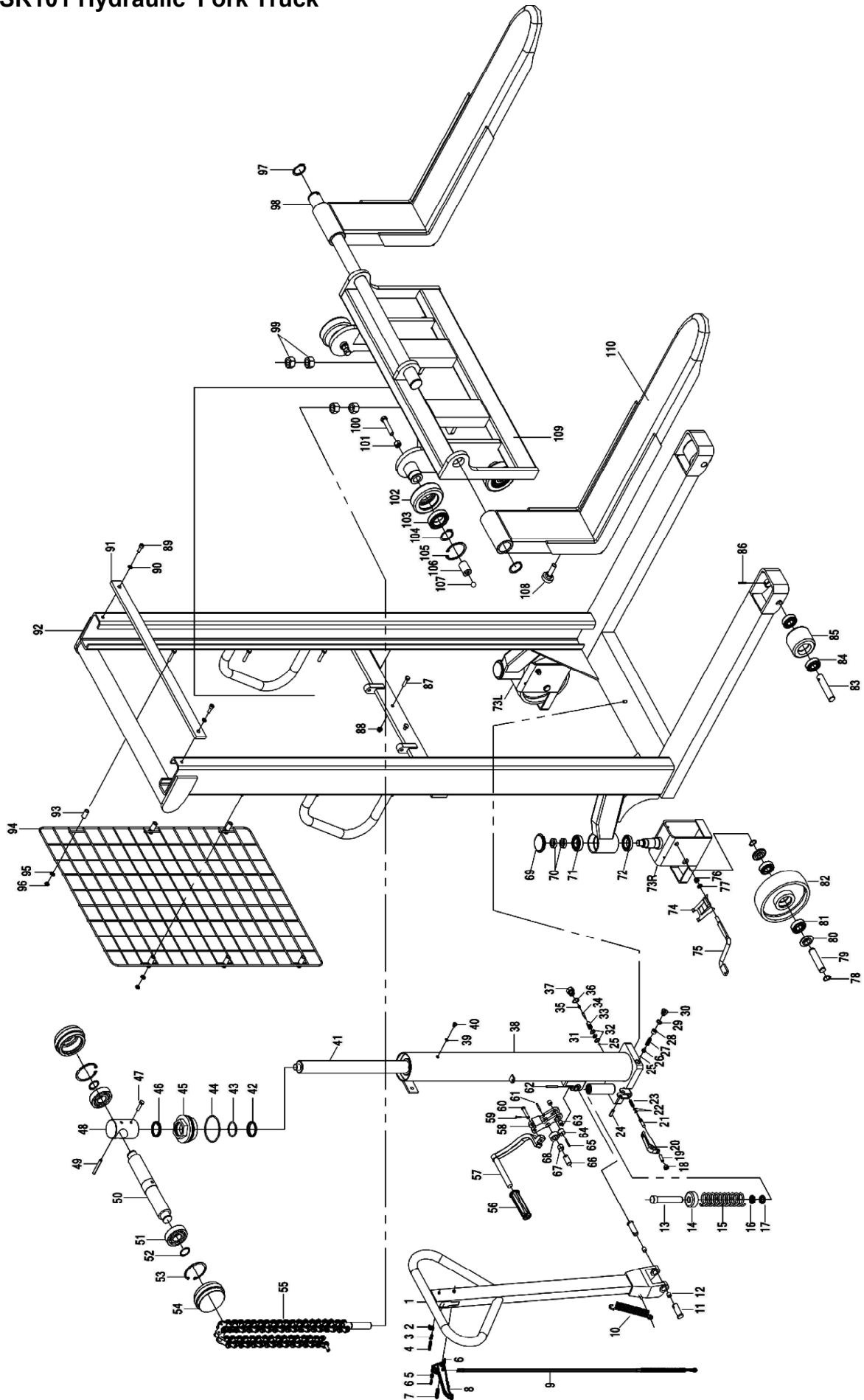


LOAD DIAGRAM

V. TROUBLESHOOTING

No	Trouble	Clause	Fixing Methods
1	The forks can not be up the max height.	-The hydraulic oil is not enough.	-Pour in the oil.
2	The forks can not be lifted up.	Without hydraulic oil or the oil is too viscous. -The oil has impurities. -The nut(48) is too high, keep the pumping valve open. -Air comes into the hydraulic oil.	-Fill in the oil or change the oil. -Change the oil. -Adjust the nut. -Banish the air: let the lever on the LOWER position, then move the handle up and down for several times.
3	The forks can not be descended.	-The lifting piston is deformed resulting from overloading. -The fork was kept in the high position for long time with lifting piston bared to arise in rusting and jamming of the piston. -The adjusting nut(9) is not in the correct position. -Fork frame and roller sprockets are jammed.	-Keeping the fork in the lowest position if not using, and pay more attention to lubricate the piston. -Adjust the nut. -Renovate impurity or replace bearing.
4	Oil seepage or leak.	-Sealing parts worn or damaged. -Some parts cracked or worn into small.	-Replace with the new one. -Replace with the new one.
5	The forks descend without the release valve worked.	-The impurities in the oil cause the release valve to be unable to close tightly. -Some parts of hydraulic system is cracked or bored. -Air comes into the oil. -Sealing parts worn or damaged. -The adjusting nut(48) is not in the correct position.	-Replace with the new oil. -Inspect and replace the waste parts. -Banish the air. -Replace the new one. -Adjust the nut.

FSR101 Hydraulic Fork Truck



Spare Parts List Hydraulic Fork Truck

Part no	Description	Part no	Description	Part no	Description
1	Handle	42	UN-ring	84	Bearing
2	Blocking spring	43	O-ring	85	Wheel
3	Torsional spring	44	O-ring	86	Spring pin
4	Spring pin	45	Cover	87	Hex bolts
5	Roller	46	Dust Seal Ring	88	Locknut
6	Spring pin	47	Screw	89	Screw
7	Spring pin	48	Chain Wheel Bracket	90	Spring Washer
8	Control lever	49	Spring pin	91	Bar
9	Control chain	50	Shaft	92	Master
10	Spring	51	Bearing	93	Sleeve
11	Handle pin	52	Snap ring	94	Protective net
12	Bushing	53	Circlip	95	Washer
13	Plunger piston	54	Chain wheel	96	Nut
14	Spring cap	55	Chain	97	Snap ring
15	Spring	56	Rubber sleeve	98	Shaft
16	Dust Seal Ring	57	Foot Pedal	99	Nut
17	UN-ring	58	Foot lever	100	Hex bolts
18	Nut	59	Split Pin	101	Nut
19	Screw	60	Link pin	102	Roller
20	Cam	61	Spring pin	103	Bearing
21	Release rod	62	Spring pin	104	Snap ring
22	O-ring	63	Bushing	105	Circlip
23	Release spring	64	Roller	106	Ball holder
24	Spring pin	65	Spring pin	107	Steel ball
25	Steel ball	66	Roller axe	108	Adjust screw
26	Spring base	67	Bushing	109	Mounting plate
27	Spring	68	Roller	110	Fork
28	Screw	69	Dust cap		
29	O-ring	70	Nut		
30	Oil plug	71	Bearing		
31	O-ring	72	Bearing		
32	Washer	73R	Wheel Cover		
33	Valve body	73L	Wheel Cover		
34	Tapered column	74	Foot Brake		
35	Spring	75	Stop Lug		
36	Washer	76	Nut		
37	Valve body	77	Washer		
38	Pump body	78	Snap ring		
39	O-ring	79	Wheel shaft		
40	Plug	80	Dust Cap		
41	Ram piston	81	Bearing		