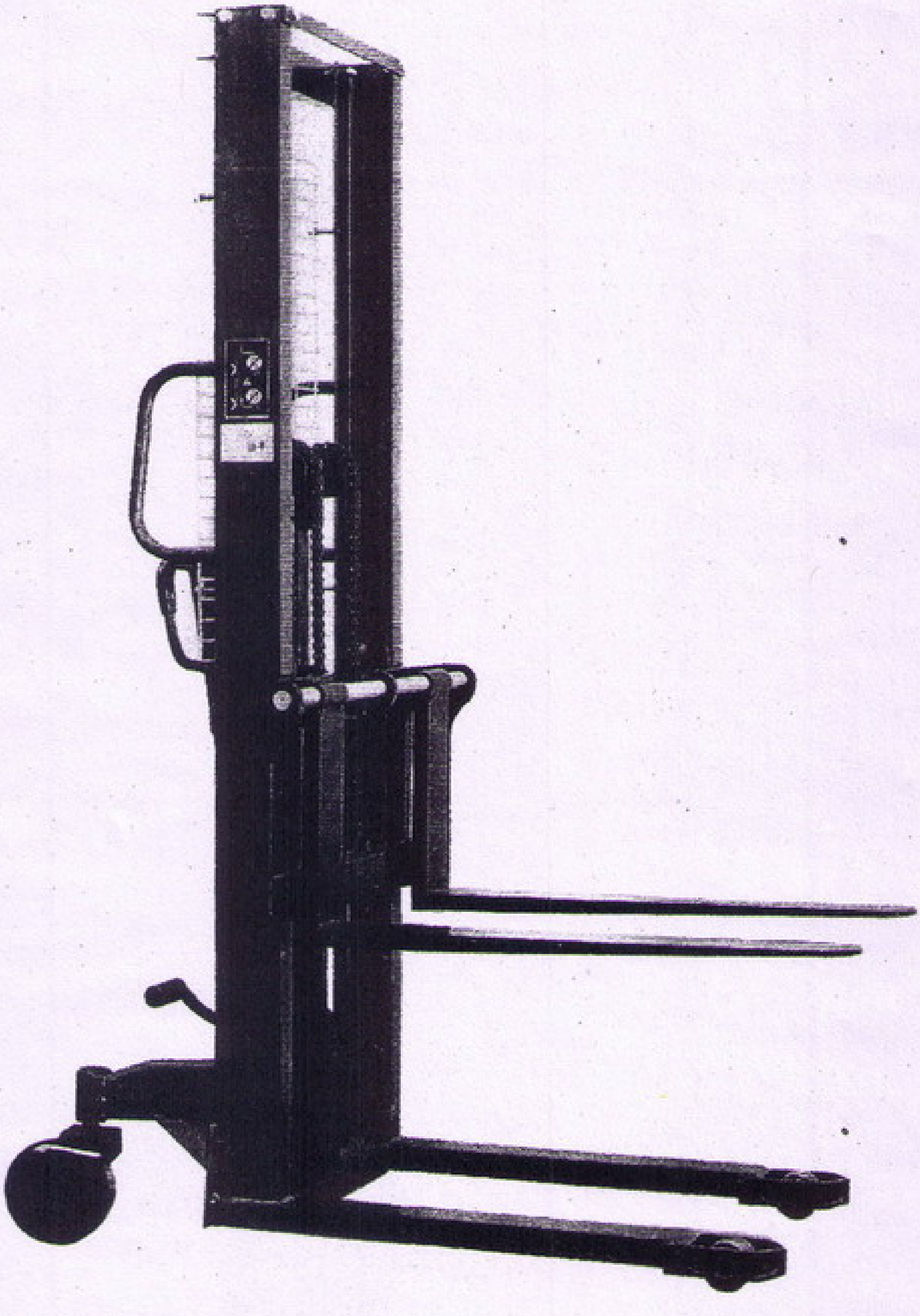
SYC SERIES HAND STACKER

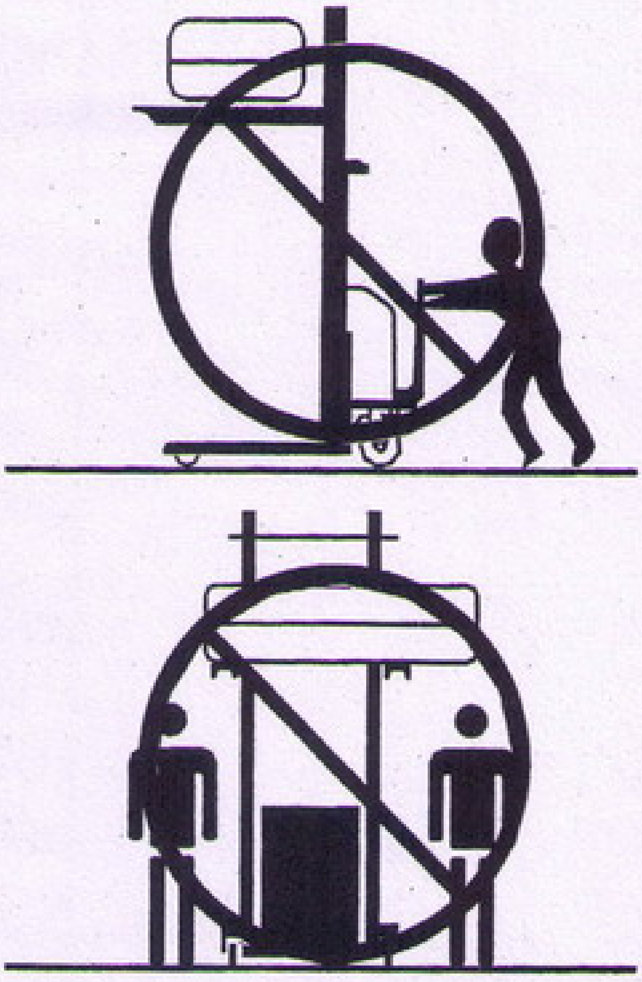
OPERATION DIRECTIONS



WARNING

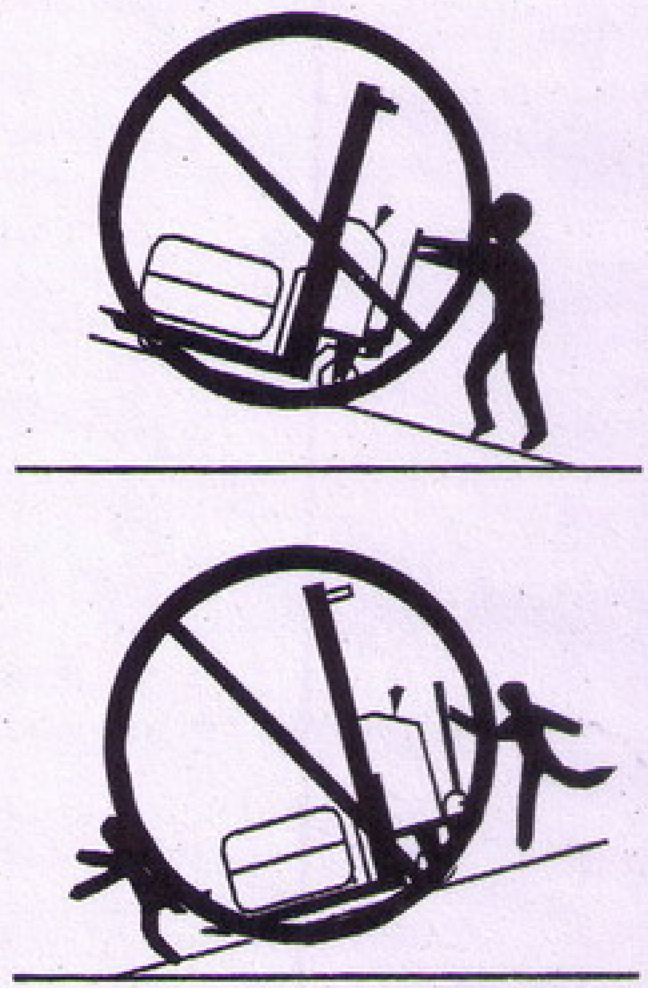
THE MANUFACTURERS SHALL NOT BE HELD LIABLE IN CASE OF FAULTS OR ACCIDENTS DUE TO NEGLIGENCE, INCAPACITY, INSTALLATION BY UNQUALIFIED TECHNICIANS AND IMPROPER USE OF THE TRUCK.

DO NOT OPERATE THIS MACHINE UNTIL YOU READ AND UNDERSTAND ALL THE DANGERS, WARNINGS AND CAUTIONS IN THE MANUAL.



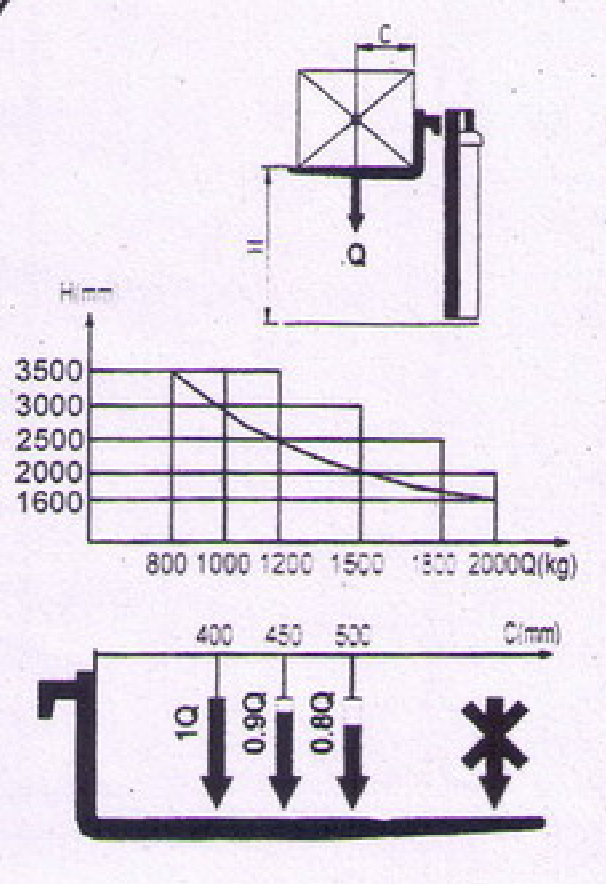
⚠ WARNING:

1.The forks must not be lifted more than maximum 300mm during driving.
2.Goods should be put on the forks evenly and never overload.Uneven loading not only damages stacker but also causes upsetting.
3.Forbid to stand both sides of the carriage welded when it is working.



⚠ WARNING:

1.The stacker is intended for use on plane and level floors.
2.Pay attention to the obstacle when moving at the slope.



CTY SERIES MANUAL STACKER
OPERATION DIRECTIONS

I PREFACE

Read this manual carefully before the machine is taken into use to avoid errors.Correct operations and regular inspections are factors of vital importance for the operating economy and lifetime of the machine.

These important area are described in the following related sections.

II APPLICATION

The CTY ·series hand stacker are designed for stacking and short distance transport applications and are intended for use on plane and level floors.

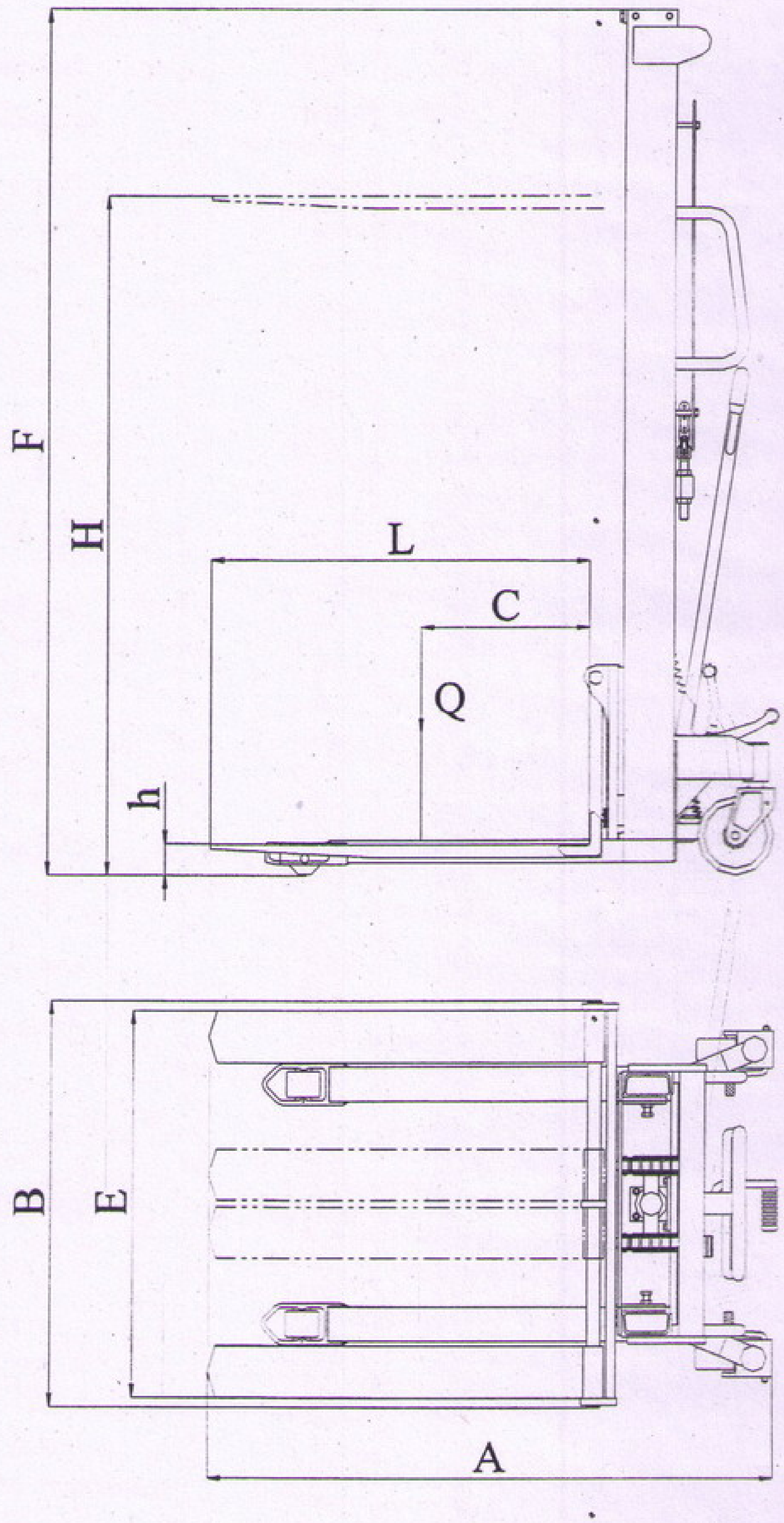
III TECHNICAL SPECIFICATIONS

Technical specifications and major dimensions are shown in table 1 and FIGURE 1,respectively.

Table 1

Model		CTY500	CTY1000	CTY1500	CTY2000
Load capacity	Q (kg)	500	1000	1500	2000
Load center	C (mm)	400	400	400	400
Max. fork height	H (mm)	1600	1600	1600	1500
Min. fork height	h (mm)	85	90	90	95
Fork length	L (mm)	800	900	900	900
Max. fork width	E (mm)	750	900	900	900
Lifting speed	(mm/time)	⩾30	⩾20	⩾20	⩾20
Dimension	Overall length A(mm)	1280	1380	1380	1380
	Overall width B (mm)	800	950	950	950
	Overall height F(mm)	1980	2100	2100	2010
Wheel	Front wheel (mm)	Φ80	Φ80	Φ80	Φ80
	Rear wheel (mm)	Φ180	Φ180	Φ180	Φ180
Turning radius	R (mm)	1250	1400	1400	1400
Net weight	(kg)	155	250	260	285

FIGURE 1



IV CONSTRUCTION PRINCIPLE

The CTY series hand stacker is composed of hydraulic system and masts.

This stacker lifts weights with manual hydraulic jack and hauls loads by hand.The hydraulic gear is equipped with return valve and foot pedal to control fork lowering rate and ensure the hydraulic action accurate and reliable.

The framework is welded of high quality swage.The rear wheels are equipped with brake casters that turn freely and easily.The front and rear casters are fixed to wheel axle with ball bearings.The casters are made of nylon that is wearable,endurable and unharmful to working surface.

The working process is as follows:insert the fork under the weights,brake the rear wheels if necessary,swing handle to press pump element so that the oil in pump tank enters the bottom of piston rod assembly upwards a stroke and through chain lift forked frame and fork upwards twice stroke.Repeatedly swing handle 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 stacker manually to haul loads from place to place.To unload the weights,step on the pedal so that the return valve will be open and via the return valve the working oil in cylinder will get back to the oil tank under the weight of loads and the fork properly,piston rod assembly·and the fork will lower to the preset position,then withdraw the fork and unload the weights,Thus,the dual effects of hoist and hauling are obtained.

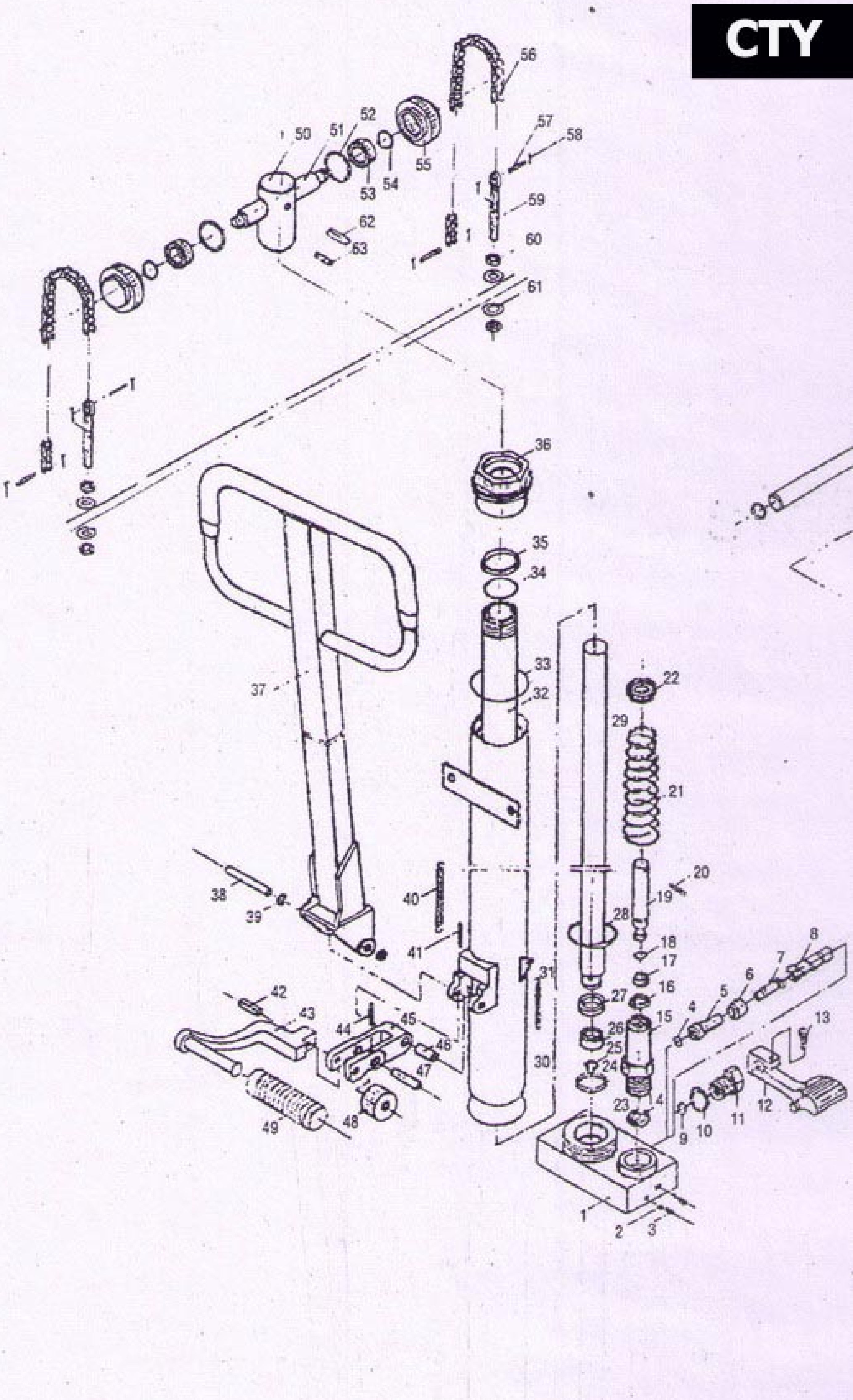
V OPERATION AND MAINTENANCE

1. The ambient temperature for CTY series hand stacker is-25～45℃.
2. Oil should be filtered clean and maintained adequate.
3. Before operating the stacker ,check whether every structure is normal and every joint part is tightened.
4. Freight should be placed on the fork uniformly and without overload.
5. Heavy should not be allowed to remain on the fork for a long time after operation is over.
6. When freight is lowered,return valve pedal should be trod lightly and slowly in order not to lower the freight suddenly and cause unsafe cases.
7. When freight is lowered at a high speed,it is inadvisable to suddenly shut return valve,for it will produce a great force

caused by the inertial acceleration at the meantime so as to spoil machine member and freight.

Ⅵ COMMON FAULTS AND SOLUTIONS

Faults	Source of faults	Solutions
The height of hoisting doesn't reach the designing requirement	Shortage of hydraulic oil	Add hydraulic oil
Lifting oil tank can't lift	1.The working oil is too viscous or no working oil is filled	Add enough hydraulic oil or replace working oil in accordance with stipulated oil level
	2.There is impurity in working oil,which prevents the feed valve from closeing tightly	Remove impurity or replace working oil
	3.Foot pedal or extension spring is detension so that release valve is unclosed at the highest position or jammed by foreign matters	Check extension spring,regulate foot pedal at the highest closing position,remove impurity
	4.Foot pedal or release valve has not been adjusted in proper position.	Release extension spring and pedal-connecting clip bolt,adjust repeatedly until it is in proper position,then tighten clip bolt and replace extension spring
Fork lifted cannot be lowered	1.Oil release pedal has not be regulated	Regulate repair or replace piston rod or bearings as per the above mentioned method
	2.A too great offset load and permanent deform action occur to piston	
	3.Forked frame and roller or sprocket are jammed	
Oil seepage or leak	1.Packing gasket spoiled or ineffective	Examine and repair,replace the seal piece and screw the joint of pipe tight
	2.Slight fissures or pores occuring to few parts	
	3.Screwed joint loosened or packing gasket not tightened	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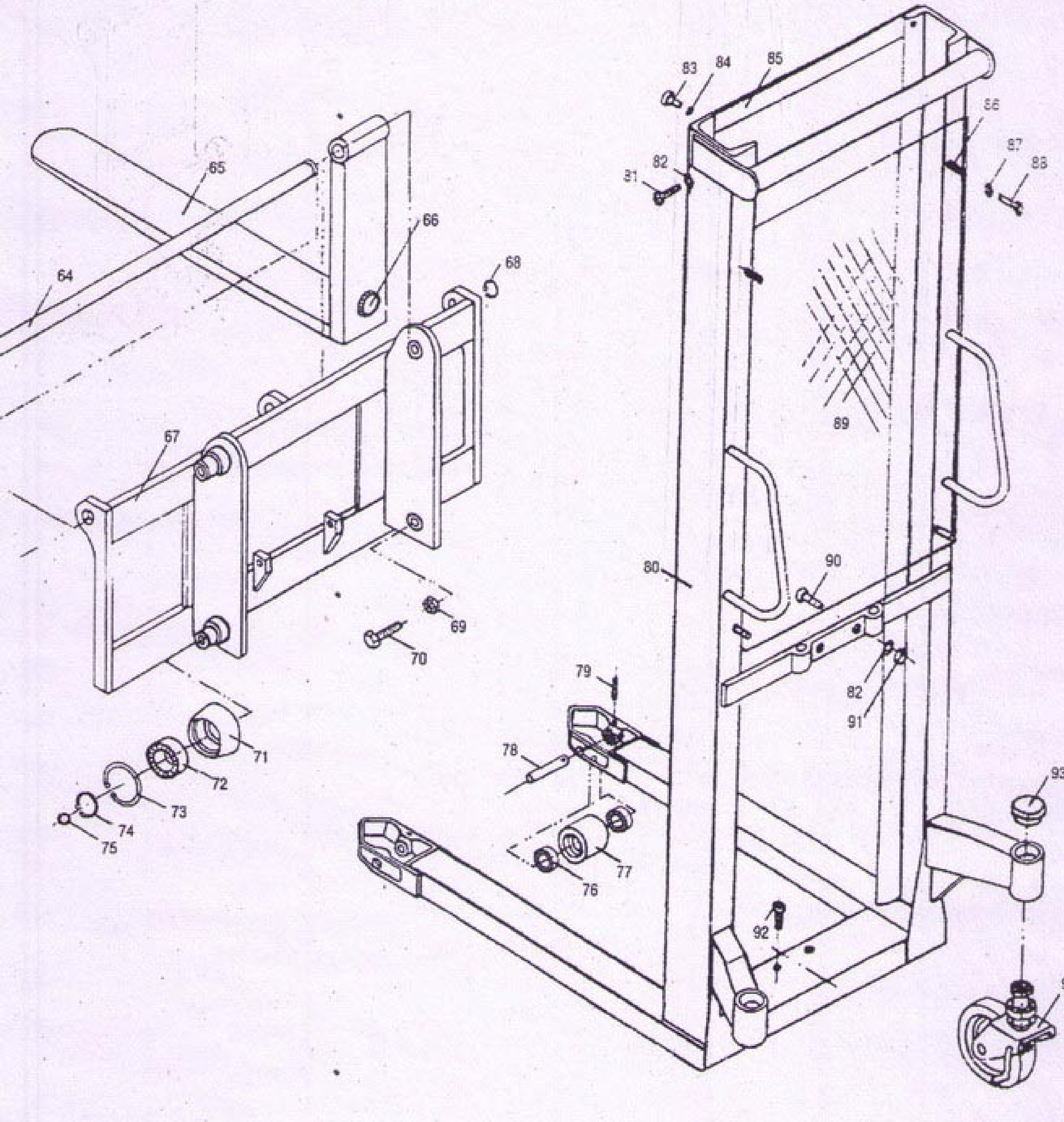
MANUAL STACKER



SPARE PARTS LIST

Item	Description	Qty	Item	Description	Qty
1	Seat	1	48	Compression roller	1
2	Steel ball	6	49	Pedal jacket	1
3	Screw	4	50	Chainwheel axle socket sleeve	1
4	Seal washer	1	51	Chainwheel axle	1
5	Valve	1	52	Circlip	2
6	Sucker	1	53	Ball bearing	2
7	Valve core	1	54	Circlip	2
8	Valve bar	1	55	Chainwheel	2
9	O-ring	1	56	Chain	2
10	Washer	1	57	Chain pin	4
11	Bolt	1	58	Retainer pin	8
12	Foot pedal	1	59	Chain adjuster	2
13	Bolt	1	60	Nut	4
14	Pump washer	1	61	Whasher	4
15	Pump	1	62	Tightening pin	1
16	Dust seal	1	63	Screw	1
17	Yx packing ring	1	64	Shaft	1
18	O-ring	1	65	Fork	2
19	Plunger	1	66	Adjusting screw	2
20	Pin	1	67	Fork carriage	1
21	Spring	1	68	Circlip	2
22	Spring cap	1	69	Nut	4
23	Dust filter	1	70	Bolt	4
24	Seal washer	1	71	Roller shell	4
25	Circlip	1	72	Ball bearing	4
26	Yx packing ring	1	73	Circlip	4
27	Bushing ring	1	74	Circlip	4
28	O-ring	1	75	Steel ball	4
29	Piston rod	1	76	Ball bearing	4
30	Oil tank	1	77	Front wheel	2
31	Extension spring	1	78	Front wheel axle	2
32	Jack cylinder	1	79	Pin	2
33	Gasket ring	2	80	Mast assembly	1
34	O-ring	1	81	Bolt	4
35	Dust seal	1	82	Washer	6
36	Cover	1	83	Bolt	2
37	Handlebar-welded assembly	1	84	Washer	2
38	Axle	1	85	Bar	1
39	Oilless bearing	2	86	Spacer sleeve	4
40	Extension spring	1	87	Washer	4
41	Pin	1	88	Bolt	4
42	Pin	1	89	Shield	1
43	Pedal	1	90	Bolt	2
44	Pin	1	91	Nut	2
45	Common block	1	92	Screw	2
46	Oilless bearing	1	93	Cap	2
47	Axle	1	94	Rear wheel assembly	2